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<141> March 29, 2001

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<213> Homo sapiens

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<222> 1204

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 <212> DNA
 <213> Homo sapiens

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<210> 15

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 15

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<210> 16

<211> 1880

<212> DNA

<213> Homo sapiens

<400> 16

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<211> 1190

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 2173

<212> DNA

<213> Homo sapiens

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<211> 1364

<212> DNA

<213> Homo sapiens

<400> 19

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<210> 22
 <211> 1204
 <212> DNA
 <213> Homo sapiens

<400> 22
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<210> 23
<211> 1728
<212> DNA
<213> Homo sapiens

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<400> 23
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<210> 24
<211> 895
<212> DNA
<213> Homo sapiens

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<400> 24

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<210> 25

<211> 927

<212> DNA

<213> Homo sapiens

<400> 25

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<210> 26

<211> 468

<212> DNA

<213> Homo sapiens

<400> 26

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<210> 27

<211> 488

<212> DNA

<213> Homo sapiens

<400> 27

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<210> 28

<211> 1502

<212> DNA

<213> Homo sapiens

<220>

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<222> 758

<223> n = a,c,t, or g

<400> 28

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<210> 29

<211> 503

<212> DNA

<213> Homo sapiens

<400> 29

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<210> 30
<211> 514
<212> DNA
<213> Homo sapiens

<400> 30
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<210> 31
<211> 581
<212> DNA
<213> Homo sapiens

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<210> 32
<211> 550
<212> DNA
<213> Homo sapiens

<400> 32
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<210> 33
<211> 1344
<212> DNA
<213> Homo sapiens

<400> 33
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<210> 34

<211> 496

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35

<211> 478

<212> DNA

<213> Homo sapiens

<400> 35

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actgccaggg gaggaaaggc cttgatgttc cagacaataa taaatgcgcc tgtgactg 478

```

<210> 36

<211> 811

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 725

<223> n = a,c,t, or g

```
<400> 36
ttttctggga aagtgaggcc accatggctc tggagaagtc tcttgtecg ctccttctgc 60
ttgtcctgat actgctgggt ctgggctggg tccagccttc cctgggcaag gaatcccggg 120
ccaagaaatt ccagcggcag catatggact cagacagttc ccccagcagc agctccacct 180
actgtaacca aatgatgagg cgccggaata tgacacaggg gcggtgcaaa ccagtgaaca 240
cctttgtgca cgagcccctg gtagatgtcc agaattgtctg tttccaggaa aagggtcacct 300
gcaagaacgg gcagggcaac tgctacaaga gcaactccag catgcacatc acagactgcc 360
gcctgacaaa cggctccagg taccccaact gtgcataccg gaccagcccg aagagagaca 420
catcattgtg gcctgtgaag ggagcccata tgtgccagtc cactttgatg cttctgtgga 480
ggactctacc taaggctcaga gcagcgagat accccacctc cctcaacctc atcctctcca 540
cagctgcctc ttccctcttc cttccctgct gtgaaagaag taactacagt tagggctcct 600
attcaacaca cacatgcttc cctttcctga gtcccatccc tgcgtgattt tgggggtgaa 660
gagtgggttg tgaggtgggc cccatgttaa cccctccact ctttctttca ataaaacgcg 720
gttgncccc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 811
```

<210> 37
 <211> 409
 <212> DNA
 <213> Homo sapiens

```
<400> 37
cttgcctgca cactcggggc ccactcaagg atgtagggcc ttttctggcc cctgacccct 60
ccctggcatg ggagcgtggg gacggggctg gccttgggag gagcggcagg ggcacacct 120
ccttctgctg cttctccctg ctccctaccct caagggcctg ggggctgccc agctgcctct 180
atgcctttct gggggtctca gcccactgct gacacttctg caatccagag aaactactaa 240
taaagcaata cgtgtttgct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagt 409
```

<210> 38
 <211> 670
 <212> DNA
 <213> Homo sapiens

```
<400> 38
aaaaagtaaa agaattgagg agaccttaat aataacctct gtttgctcct tatttttaga 60
tgggtcatat ttctctatga tcgtatttgt ttaaaaatta ttctgatttt tcagcctgca 120
ggtcaggagt catcttttcc cccttctggt cagtatcctt atcctagtgg ctttctcca 180
atgggaggag gtgcctaccc acaagtgcc aagtagtggt acccaggagc tggaggctac 240
cctgcgcctg gaggttatcc agccctggag gctatcctgg tgccccacag ccagggggag 300
ctccatccta tcccgagggt gagttacggg ttgcggaatt agtaatgatt gggattgctg 360
tagcactttt tcttctccc tttatcctct tcattcctgc ttgttttgta taaggtaag 420
tcgtcttag gtaaccttag gtagtaagga cctagctggc aagatggagg gatgaagatt 480
ctctggggac atgaaagctg ggagcagttt caaaaattcc actgtgaagg gacttggaat 540
aaatttcatt gcaataaagg accaatatgt aacactttgc ttgtttgtag tcttaagacc 600
tgattaagac atttcaatta gcaagactgt gaccttttag tcagctttat tcaaaggtaa 660
aaaagacccc 670
```

<210> 39
 <211> 1095
 <212> DNA
 <213> Homo sapiens

```
<400> 39
ggggaacaca ggtctgcagc aacttctcct tgccctctac atatttgtaa agtgccctctc 60
ctgtgccagg cactgttctg ggctctgggg atgtgtaatg aacttctgga tagatttccc 120
cagtagagga gaaacacctg ctttcaaata cacaaggaa gtgttgagtt gttgcccggc 180
tgtgattggt ggaaggcatc tcttgggcag tgaagctgag acctcaggct gtggccgtg 240
```



```

catccacgct ccaggaggat ggaagatgca actcgtattc cagacctgtt cccatctccc 300
cttctgattc tcttttctcc cagggaagt agttgtgggt tgatttcatt tatgttttcc 360
aaaccattca cttactgagt cctgcctgag tgccagacac tgtgccgaca gcttaccctg 420
aataagctaa tagacgatga tcctaagtct ccccatgcga cgggttgtgg atccccgatg 480
ctgtggatcg ggaagctgag gcttaggggt cccctgtgga aggagccgga acctgacctt 540
ggctctgtac ctccgcaccc cagagccccc ctgcctgccc tgaggagctc ttataaaaaa 600
ttttaaaatt aatttttaat tacatgaata ttgcaggagg atattctctc tataaaaaat 660
taagacatta cagtgaaggc taaagcccc tgtggtcctt ctaatctcag tagagaggtc 720
ctggtagaaa gcacagtttt ctatggtgtg tgtccatcca gacatttaaa aaatatgtac 780
atatttatac atgtctgtat ctatggaaaa tatatgggtc cattttgtgt ctgggtattt 840
tcattctatt tttagaaaat acaaattgga acattctgca gcttttctac tcagcagtgt 900
ttcttttctt tcctctgttt ttttagaagg aataaatatt taataaaata tcactggaaa 960
taaaccactg aagcagaagt cttctagcat tttgttttta caggactttt tgacgaaatc 1020
gcttaaagca atatattttt tttttcaaaa gactggaaat ctttttttaa aaaaagaaaa 1080
aaaacaacgt ttttt 1095

```

<210> 40

<211> 847

<212> DNA

<213> Homo sapiens

<400> 40

```

gccgcttttt tttttttttt tttttttttt tttttgctgt cttccatctt tctcgctcga 60
atttctctca ttaaatacaaa aaataccttg tcaacattag ctctgtgttt agcagatgtt 120
tccacgtagt taacattcca ctgctcagct ctgttttttg cctcttctac agaaacctgt 180
cttttatctt ctaaactctga tttgttacca accagtagaa atggaacatt ctcatcttct 240
tttactctta aaactctgct cctgaagtca gctgtagctg caaaggattc catttctgta 300
atagagaaaa cacagaggaa cccctcccca cttcggaagt agttgtctct aattgcagcg 360
tagtcctcct gccagctgt atctaagata tcgatctgga cttcctcccc atctagcact 420
accttcttcc gatagctgtc tgctttggta ggctcatagt cctccacaaa ctcatcgtac 480
atgaactgta gagtcagagc tgacttgccc acgccaccac tgcccaccat gatgactttg 540
tgtaaagcca aagaattctg acccttgggc ttatttgtag ccattttgtg tctcagtttt 600
caccaaagga ttaagaagaa tctgcaccgc gagccagtc gccgccccga gggctccgga 660
agccgcggct gcgtggctcc ggccggaggg tactcggtcc ttgtcgctg gaaggccccg 720
cgccgggagc ggtcgaagga ggagtctgac ggggtggcgg ggagcctggg cggctggagg 780
aggaggagga ggaggaggag aaggaggagg aggactccga cgctttgctc tggggagatc 840
ttagaaa 847

```

<210> 41

<211> 764

<212> DNA

<213> Homo sapiens

<400> 41

```

atcactagtg gagtttctta cctacattta agtatcctca ctagccttca taaaataatc 60
atcaacatca aagatacctg tttctgttct ctcttaccct gtccacagaa cttttgagac 120
tttcaggacc agtcatgcag cagtcccagc agccccagcc tctacagaag cagccaccac 180
agccccagca gcagcagaga cccagcagc agcagccaca tcacctcag acagagtctg 240
tcaactctta ttctgcttct ggatccacca atccatacat gagacggccg ctttgctttt 300
tttttttttt tttttttttt ttttttggtc aggggtctct tctgtcacc aggtctggagt 360
gcagtggcac aatcatggct cactgcagcc tcgactttcc gggctccagc aatcctccaa 420
cctcagcctc ctgagtagct gggactacag gtgcttgcca ccattgcccg ctaagtgttg 480
tatttttggg agagatgggg ttttaccatg ctgcccagag tgggtctcaa ctcttaagct 540
caagtgatcc accacacctg gcctcccaaa gtgctgggat cacaggcatg agccaccgaa 600
cctggctatt attatcttaa aaaaaaacia cagtttatta taaatgtttt aagcaatcaa 660
tacatcacta ggtttaacaa ttactagcat tcttcatgcc aaagatctta aaggacatcc 720
tagacttcgt ggcaaactat ataaggcaag taacacctta gaaa 764

```

<210> 42

<211> 788

<212> DNA

<213> Homo sapiens

<400> 42

```

tttcttttta ttattttata atttttgaaa tagagatggg gtctcactgt gttgcccagg 60
ctggctctcg actcctggac ttaagtgagc ctcccgccctc agtctcccaa agcgctggga 120
ttacaggcgg gagccactga gccagcccaa gacttcagtg ttgactgctt tggaggcaca 180
aaccatgca agcgtaggtt ccaaagttca gtgtgtaccc ttaaataaac aatgaagcag 240
gtaaaattac ccttgaaaaa aatcccttgg accaccata aatgacagtg actttttcaa 300
tatggactca tcatagccag ttttcccttt gaagttggaa ctgatcacc ttttgtcatc 360
tgtaccagat cagtagttgg cttgtgttac attttgtgtg tgtgtgtgctg tgttttaaac 420
cagtgcataa aaattgtatg ttaaatagta gtaactttaa gttgacttat ctcttcacag 480
taatcaagcc tcacgtaatt catgcttttt aaattcagcc agccccccct ctctgaaatt 540
ttattatgta aataatttgt gttccctgat cactcgttta agttcttagt tgtatgtcat 600
ctcttctcta gcaggaattg gcaaactttt ttgtaaaggg gtagaaagtg aagatttttag 660
gctttgcagg ccatatagcc tctgctgcaa atgctcagcc ctgctgttgt aatgtaaaag 720
ctgccacaga cactacatga acacgaatga gtgtggctgg tgttccaata aaactttatt 780
taccacca

```

<210> 43

<211> 575

<212> DNA

<213> Homo sapiens

<400> 43

```

tttttttttt tttttttttt tttttttttt ttttggaggg gctctctgta tcttttatct 60
ccggcagggg cagcgccctt ccaggggccg gtctcgagcg atgactgcct cctcgaactt 120
gatcatgagc gtggtgccct tgtgccagtg cgccgtgacc ttggcagggg agccgctgtg 180
tgtgagcacc gcctccacga tgcccgccgt gaagctggcg agttgagcg tctgtttctc 240
cttgggcacg gagatgtagg tgttgatgag cggctcgcgc tcgatgatgt agaaggtgctg 300
cgcgctcatcg ttggcctgct ccagcttgct cgccctcctt ccgaagagcg ccttccacac 360
ggcgcccttg acgaagagca acgcgcctag cgcccttggt tcacgcgggg cacccttttc 420
gcgcgccacc agcgcatcca gcacgcgcgc gccacctgg cgcccagcg cggccaggcg 480
cgactgcagc tcggccacgg agaagacgcg gctctggcag tctgtacca gctcggagaa 540
cagcagtgcg aaggcgctca ggctcacctc ggtgc

```

<210> 44

<211> 1290

<212> DNA

<213> Homo sapiens

<400> 44

```

caccaaatgg cggatgacgc cgggtgcagcg ggggggcccg ggggcccctg tggccctggg 60
atggggaacc gcggtggctt ccgcggaggg ttccggcagtg gcatccgggg ccggggctgc 120
ggcgtggagc ggggcccggg ccgagggccg ggagctgcgc gaggcaaggc cgaggataag 180
gagtggatgc ccgtcaccaa gttgggcccgc ttgggtcaagg acatgaagat caagtccctg 240
gaggagatct atctcttctc cctgccattt aaggaatcag agatcattga tttcttcctg 300
ggggcctctc tcaaggatga ggttttgaag attatgccag tgcagaagca gaccctgccc 360
ggccagcgca ccaggttcaa ggcatttgtt gctatcgggg actacaatgg ccacgtcggt 420
ctgggtgtta agtgctccaa ggagggtggc accgccatcc gtggggccat catcctggcc 480
aagctctcca tcgtccccgt gcgcagagcg tactggggga acaagatcgg caagccccac 540
actgtccctt gcaagggtgac aggcgctgc ggctctgtgc tggtagcct catccctgca 600
cccaggggca ctggcatcgt ctccgcacct gtgcctaaga agctgctcat gatggctggt 660
atcgatgact gctacacctc agcccggggc tgactgcca ccctgggcaa cttcgccaag 720
gccacctttg atgccatttc taagacctac agctacctga ccccgacct ctggaaggag 780
actgtattca ccaagtctcc ctatcaggag ttactgacc acctcgtcaa gaccacacc 840
agagtctccg tgcagcggac tcaggctcca gctgtggcta caacataggg tttttataca 900
agaaaaataa agtgaattaa gcgcgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcgaa 960
gatgcaaaga ggttgatca agtttaaatg actgtgctgc ccctttcaca tcaaagaact 1020
actgacaacg aaggccgcgc ctgcctttcc catctgtcta tctatctggc tggcagggaa 1080
ggaaagaact tgcattgttg tgaaggaaga agtggggtgg aagaagtggg gtgggacgac 1140
agtgaatct agagtaaaac caagctggcc caaggtgtcc tgcaggctgt aatgcagttt 1200

```

```

aatcagagtgc ccattttttt ttttgttcaa atgatttttaa ttattggaat gcacaatttt 1260
tttaatatgc aaataaaaaa ttttaaaaacc 1290

```

```

<210> 45
<211> 814
<212> DNA
<213> Homo sapiens

```

```

<400> 45
aggaggccca ggcccaaaag gacaaggaca aggaggctgg cgagaagcca tcagggtggag 60
ccccggctgc ggatggcgag caggacgaga ggagccccag ccgttctgaa ggcgaggctg 120
agagcgagag cagcgactcc gagtccctgg acatggcccc cagcgacacg gagcggactg 180
aggggagtg gcggttctctg caccaaaaca cagtatttaa ggccccggtc actggcgccc 240
tcattaccgc cagcagtgct gggagtggtg ggagcagcgg cggcgggcggc aatagtttca 300
gcttcagcag cgccagcagt cttagtagca gcagcaccag tgcgggttgc gccagcagcc 360
ttggcgggcg cggcgccctc gagcttctcc ctgcaacaca gcccacagcc agcagcgctc 420
ccaaaagccc cgagccagcc caaggcgcg c ttggctgctt atagactgta ctaggggcga 480
ggggatccgg gccttgctg cagcctcccc accatgggct gggttttgtg cttactgtat 540
gttggcgact tggtagggca ggagacgcag cgtggagcct acctcccga cttcacgctt 600
cgccccacgc tgcctcgact ggctgcagcg gacactgccc aaagcagagg ggagtctcag 660
tgtcttgcta gccagccgaa cacttctctc cggaagcagg ctggttcgac tgtgaggtgt 720
ttgactaaac tgtttctctg actcgcccc gaggtcgtgg ctcaaaggca cttaggacgc 780
cttaaatttg taaataaaat gtttactacg gttg 814

```

```

<210> 46
<211> 959
<212> DNA
<213> Homo sapiens

```

```

<400> 46
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aactgggggc agcctccgag accctgagcc agagcaggct gggcccagct ctggagtcac 120
gaacagggtc ccgttcctcc tggacaattg ccttggcaca tctcagtggc cccaaggcg 180
acgacgcaag cagctgttca ccctgcagac ggtgaactcc aatgggacca gcgaccgcac 240
aacctcccc gaagaagtcc atgcccagcc gtacattgct atcgactggg agccagagat 300
gaagaagcgt tactatgacg aggtagagcg tgagggtac gtgaagcatg actgcgtcgg 360
gtacgtgatg aagaaggctc ccgtgcggct gcaggagtgc attgagctct tcaccactgt 420
ggagaccctg gagaaggaaa acccctggta ctgcccttcc tgcaagcagc accagctggc 480
aaccaagaag ctggacctgt ggatgctgcc ggagattctc atcatccacc tgaaacgctt 540
ttcctacacc aagttctccc gagagaagct ggacaccctc gtggagtttc ctatccggga 600
cctggacttc tctgagtttg tcatccagcc acagaatgag tgaatccgg agctgtacaa 660
atatgacctc atcgcggttt ccaaccatta tgggggcatg cgtgatggac actacacaac 720
atttgacctg aacaaggaca gcggccagtg gcactacttt gatgacaaca gcgtctcccc 780
tgtcaatgag aatcagatcg agtccaaggc agcctatgtc ctcttctacc aacgccagga 840
cgtggcgcga cgctgctgt ccccgccgg ctcattctgg gccccagcct cccctgctgt 900
cagctcccca cccagctctg agttcatgga tgtaattga gagccctggg tctgcccac 959

```

```

<210> 47
<211> 1174
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1038,1080,1100
<223> n = a,c,t, or g

```

```

<400> 47
cttttttttt tttttttttt tttttttttt tctatgcagt ccttgtttcc tgccatttaa 60
tttttagatga aaatgagaca tatgagtaca ctgaaaagta acatcaccat ctggaaaatt 120
atacataagg aaaatgcaat aagggaatat agactcttca gccctattc cagtactctt 180

```

```

taacaactct gcttccttgg acgggaattc atgaggtata atacttaagg agattttcat 240
ctgtaggttt taggattttt ttatcggcca tattcaccac ccatcctgga gcaagaccaa 300
agaaaaatctg ccttgatcc ttcttagtac agagcatttt gaagagttca tcttttagtga 360
tatcagggtaa gatataacca tacttcctgg cgagttcaag tcgtgcttca ggaaatttgg 420
caggatccgc caggtaacca cggttctttg catcagtgtg atatggtacc agttcttctg 480
gtggaagcat tcttttttgg atgggttgtc cacgaagaaa gaatggaaca ggtttgcata 540
caatgtccag acttcttggg tcatagaagg ctgtagtaac aacaccacca tttttttcaa 600
tggcagcaat agctagtctt gaagccaact gtacttcaat attaaactttt gccgtaaagg 660
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agttggccag gctcacangc ggcaggcccc ggagtaggtc cagggcccg gccccaccgn 1080
cctgcaaggg accggccatn accgcagat ccaagaactt tcaagggcgc cctgagctgc 1140
tcggaggcca cgtggtctcg gggaacctta gaaa 1174

```

<210> 48

<211> 1157

<212> DNA

<213> Homo sapiens

<400> 48

```

ggccggatgg ggagccgctt ggtgggcatc atctcctcca gggacattga ttttctcaaa 60
gaggaggaac atgactgttt cttggaagag ataatgacaa agagggaaga cttggtggta 120
gcccctgcag gcatcacact gaaggaggca aatgaaattc tgcagcgag caagaaggga 180
aayttgccca ttgtaaatga agatgatgag cttgtggcca tcattgcccg gacagacctg 240
aagaagaatc gggactaccc actagcctcc aaagatgcca agaaacagct gctgtgtggg 300
gcagccattg gcactcatga ggatgacaag tataggctgg acttgctcgc ccaggctggg 360
gtggatgtag tggtttttgg ctcttcccag ggaaattcca tcttccagat caatatgatc 420
aagtacatca aagacaaata ccctaattct caagtcattg gaggcaatgt ggtcactgct 480
gccaggcca agaacctcat tgatgcaggt gtggatgccc tgcgggtggg catgggaagt 540
ggctccatct gcattacgca ggaagtgtg gcctgtgggc ggccccaagc aacagcagt 600
tacaaggtgt cagagtatgc acggcgcttt ggtgttccgg tcattgctga tggaggaatc 660
caaaatgtgg gtcatattgc gaaagccttg gcccttgggg cctccacagt catgatgggc 720
tctctcctgg ctgccaccac tgaggccctt ggtgaatact tcttttccga tgggatccgg 780
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tgccaggaca ttggtgcca gagcttgacc caagtcagag ccattgatgt ctctggggag 1020
cttaagtttg agaagagaac gtcctcagcc caggtggaag gtggcgcca tagcctccat 1080
tcgtatgaga agcggctttt ctgaaaaggg atccagcaca cctcctcggt ttttttttca 1140
ataaaagttt agaaagg 1157

```

<210> 49

<211> 2193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2029,2053,2120

<223> n = a,c,t, or g

<400> 49

```

ttttttttt+ tttttttttt tctgatcaga ctctttttat tgttttgttt ttataaaaca 60
agtctcaggt ggaaaaagaa agaaaggag gagctagctc tctgccttct cagccaattg 120
aaatcgtagg aaccaatggg cttcagctag cccactcat cactgctggg ggggaaaaga 180
catccctact ccccttcccc gtggcactca tgatattctc aatgccccaa caagggtcat 240
cttggttccct ctcggcgttt ctgtcctggc ctttggctct ggctccggct ctgactccgg 300

```

```

ctccggccag ggccccggga gcccttagag ctgctggagc ccttgggaaga gttgctgccc 360
gccgtggaac aggtgctggt gccctggccc cgggacagga agcttgggtc gctgtatggg 420
agccaggcct cttcatctgg gtggagcacc cgctgggctg ccaggggcac ggcctggacc 480
gctttcctct cccactgctg ctcccgtccc agggaggaca tgetgectgc tgcctcagc 540
tctagggccc agctcgccct ttcctctggc ggtggcaagg gtgggtgggg caagtcccca 600
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atcttgtcag cctccatatt cctgcccaca ttacacttcc accctgacac aagcctgaga 1140
cctctgtacc ccagatccat ccacccatcc atccatccac ccaccagtc atctactgag 1200
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2193

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<210> 50
<211> 651
<212> DNA
<213> Homo sapiens

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<400> 50
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651

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<210> 51
<211> 1204
<212> DNA
<213> Homo sapiens

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<400> 51
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<210> 52

<211> 1541

<212> DNA

<213> Homo sapiens

<400> 52

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<210> 53

<211> 2384

<212> DNA

<213> Homo sapiens

<400> 53

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gataactgtg atgaaggga ggacctgct gtgatcagaa gcctgactct ggagcctgac 180
cccatcgctc ttcttgaaa tgtgacctc agtgctgtgg gcagcaccag tgtccccctg 240

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<210> 54

<211> 1254

<212> DNA

<213> Homo sapiens

<400> 54

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acatgtaacc cagcagcagt ttgcttctgt tgtccactga ttaatcagcc tatgtgcctg 1140
acactggctc tgcagtacaa ctggaagcca aaacaagggt gaagatgtcc tgaattaaga 1200
cgttttcacc acattgtatt acagagacag ccaataaatt tactatttga tttc 1254

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<210> 55
<211> 1127
<212> DNA
<213> Homo sapiens

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<400> 55
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cagggctagg tagcactcgc agctctgtcc tgtgtagcct gggctactgt gtctggtagt 480
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```

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<210> 56
<211> 968
<212> DNA
<213> Homo sapiens

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```

<400> 56
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968

```

```

<210> 57
<211> 1002
<212> DNA
<213> Homo sapiens

```

```

<400> 57
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```



```

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<210> 58
 <211> 691
 <212> DNA
 <213> Homo sapiens

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<400> 58
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ggaggatcac ttgagcccag gagttcaagg ctgcagtgag ccatgattgc gccactgcac 660
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<210> 59
 <211> 943
 <212> DNA
 <213> Homo sapiens

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<400> 59
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cggacgcca ggaccccatg gcagtgggaa aaatctagga gactgttttg aaattgattt 900
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<210> 60
 <211> 2399

<212> DNA

<213> Homo sapiens

<400> 60

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<210> 61

<211> 1516

<212> DNA

<213> Homo sapiens

<400> 61

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<210> 62
<211> 933
<212> DNA
<213> Homo sapiens

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<400> 62
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<210> 63
<211> 1232
<212> DNA
<213> Homo sapiens

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<400> 63
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<210> 64

<211> 1207

<212> DNA

<213> Homo sapiens

<400> 64

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<210> 65

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 65

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<210> 66
<211> 938
<212> DNA
<213> Homo sapiens

<400> 66
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<210> 67
<211> 1369
<212> DNA
<213> Homo sapiens

<400> 67
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<210> 68
<211> 857
<212> DNA
<213> Homo sapiens

<400> 68

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<210> 69

<211> 824

<212> DNA

<213> Homo sapiens

<400> 69

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<210> 70

<211> 928

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71

<211> 672
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 <213> Homo sapiens

<400> 71
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<210> 72
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 72
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<210> 73
 <211> 1519
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> 1483
 <223> n = a,c,t, or g

<400> 73
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<210> 74
 <211> 760
 <212> DNA
 <213> Homo sapiens

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<400> 74
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<210> 75
 <211> 344
 <212> DNA
 <213> Homo sapiens

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<400> 75
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<210> 76
 <211> 3684
 <212> DNA
 <213> Homo sapiens

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<400> 76
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<210> 77

<211> 2817

<212> DNA

<213> Homo sapiens

<400> 77

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<210> 78

<211> 2066

<212> DNA

<213> Homo sapiens

<400> 78

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<210> 79

<211> 2044

<212> DNA

<213> Homo sapiens

<400> 79

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```

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aaggctaattg agctcactgc acagcctgag tacgttttgg atttggcctt cttggagatg 1800
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ttaaatacacc ctgtgttttc cccataaaca cgaatgttaa tttacatttt taacctaaact 1920
gaatgagttg tttttcttaa attcctttgc agtttgaagg aacatacctt gcaacaggaa 1980
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aaag
2044

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<210> 80
 <211> 1035
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1000
 <223> n = a,c,t, or g

```

<400> 80
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aagcttttag catccactaa gtgccttttt tcataagaga agaaaattgt gcataaaaaat 180
tggttatgtt tgttttttag tcatcttttt taacatatat ttttgattga caaattgcct 240
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gaaagtaatt ttaaaatggc aattgggtgt tctaagccat tgactaataa aacatagggt 360
tggttagtaa ttattttgtt aacttgatga actcaagtat gactattatt tattgtacat 420
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tggtactata ttgtacttct gacaaatcct tattcctggg tggatttttt aagatatcct 540
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gtatttacta aaatt
1035

```

<210> 81
 <211> 1113
 <212> DNA
 <213> Homo sapiens

```

<400> 81
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agatggcggg tcgctctgtg gctcatctct tcatagatga gacaagcagt gaggtgctag 180
atgagctcta ccgtgtgtcc aaggagtaca cgcacagccg gccccaggcc cagcgcgtga 240
tcaaggacct gatcaaagt gccatcaagg tggctgtgct gcaccgcaat ggctcctttg 300
gccccagtga gctggccctg gctacccgct ttccgagaa gctgcggcag ggtgccatga 360
cggcacttag ctttgggtgag gtagacttca ccttcgaggc tgctgttctg gctggcctgc 420
tgaccgagtg ccgggatgtg ctgctagagt tgggtgaaca ccacctcacg cccaagtac 480
atggccgcat ccgccacgtg tttgatcact tctctgacct aggtctgtct acggccctct 540
atgggcctga cttcactcag caccttggca agatctgtga cggactcagg aagctgttag 600
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tgagaaaaca cagataattg gcttcctaac cctgctcacc tggcactaac acttttcaat 720
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gagaaccctt ttggggatag taaagacaga agaggggaag gtggccctta gagacagagc 1020
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```

attctcatag gggaaataaa actactaaaa tac

1113

<210> 82

<211> 1574

<212> DNA

<213> Homo sapiens

<400> 82

```

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agaaacgaag aggcctgggg cctcagtga ggtctcttgc aagacttctg gttatacatt 180
catcagtttt ggcatcaatt ggttgcgaca gtcccctgga caagagattg aatggatggg 240
gtgggtcaac cctaatacag gtgacacaga atatgcatcg aagttccagg gcagagtcac 300
catgacgaca gacagaccca catttacagt ccacatggaa ttgaggagcc tggcacctga 360
cgacacggcc gtatatattt gtgcgcgagg cttaaggtg gtaccgctg ctacttattt 420
cgactattgg ggccaggga cctgtctcac cgtctctca gcctccacca agggcccatc 480
ggtcttcccc ctggcgccct gctccaggag cacctccgag agcacagcgg ccctgggctg 540
cctggtcaag gactacttcc ccgaaccggt gacggtgtcg tggaaactcag gcgctctgac 600
cagcggcgtg cacaccttcc cagctgtcct acagtcttca ggactctact ccctcagcag 660
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agtgccacgg ccggcaagcc cccgtctccc aggtctctcg ggtcgcgtga ggatgcttgg 1500
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ccctgggccc ctgc

```

<210> 83

<211> 1817

<212> DNA

<213> Homo sapiens

<400> 83

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ctgtggctcc ctgtggctcc actcagcagc tttgggggca acagggctgg ggggtggctg 180
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gaccctgccc gcctgctgta ggcaccccg catcaggggt gcgccacca gtctgtgcgg 600
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ctcaagtccc ccaagggctc cggaagccg cctgggggtgc cagccagcag caagtccggg 1200
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cacctcacgc agccccacc gccaccttac ggccacaagc ggtaccgcca aaagggcagg 1320
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tcctagcgcc actgccaagc acacctcgct cccagcacac cacggccccg gacctcaggg 1560
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tccgacagca aacagcaact gactgcaggt gctggcatga tggaggtggt gcaccttgga 1680
cacgtggaca agggccaggc gccctctgct cttctgccct cgatgccaca tggcggtgaa 1740
cacatctgaa gccactatgt ttcctggctc taaggctcgt ctgtgtaacc cataaaacct 1800
gctttgattc caaaatg 1817

```

<210> 84
 <211> 1079
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 499,542,571,573,600
 <223> n = a,c,t, or g

```

<400> 84
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tcctatttca ttctctgtcc agagtttttt gctaaagata gaattattaa tgatacatca 180
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ggcttccaag gttgtattta aatttgactg aatatctgga tggctaagaa cagacattta 300
tcttacacat ggaaaactga cgaaacctat aagcctatgt gtttgacagt gaagtatgtt 360
ttatggactt aaatgccaca aacagttaag tccattggct tggagatgac aagcacaagt 420
ttctgggatg tctagtgttc tcatttactg attcagtcag tacacagata atcactatag 480
agaacttaag aggtctggct atgttatacc taaattttta ctttcttgta tacaacaatg 540
cnaaaattga gcagattgat aactgccagc nanaccatag atttaagata aatgaatgan 600
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tccttatagg gcttacatgc atatgcaagg atattttatc ttattcattc atttcatact 720
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tgtcaataca ttttagcgga caaagaagaa acatgccagt taaaacattt ctgctactgg 840
gattctttat taaatatttt gagaatgtta ttttgctagt tcttaagggt aagtttttca 900
tcaaagactc aggtacctat tattgttccc tggtgaaact gaggagaaaa gttaatcaac 960
caggttcctc ccacagtttg cccgtgtgtt atgtatcagt tatacaggta tccccccaag 1020
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```

<210> 85
 <211> 1011
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 971,975,977
 <223> n = a,c,t, or g

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<400> 85
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gctgccttga gaatgagggg ctgaatccca aacaagggtt caaatctcaa cctctcaggc 180
ctaccctgac cttacgtatc ttctctcagg gctgtgcac atgctgttcc ttcttccctg 240
aatgcttgct cccatagttt tcagctggcg aatgtgagtg aggtctcccc ttaaagtgtca 300
tctaagagag ccccttctaa ttcctccctc tcatcttaac tctatcccca atacactctc 360
tcacagagac tgttcttttc cttctgagac cctactccag cttgtagtgc taaatctgtg 420

```

```

attatgcact gtctgtcttc ctcttgaggt caggggccat ttcttttgtt ctctgctatg 480
ctcaggaccc agatcaaaag agctcagtaa ctatttacag gcgtacatca tatgtggagg 540
acacttatgc tgtgatggcc ccacacacag ctctctttgg ggtctgtccc ctgctctccg 600
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ggtatcaaaa catatcattc cccagtgggt taaaactctg gttagctttcc agggagtcca 840
agtggagtc agtctcctta gctgagttca cagggccccc tctgcacgac ttggcttctg 900
tcggcttccc tagccctgac ttcccaagcc ttagtcatca cctctctccc caccagggc 960
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```

<210> 86
 <211> 549
 <212> DNA
 <213> Homo sapiens

```

<400> 86
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atctagttct tgggtcttca ccgctctctt ccaaatacc accctgccag cagccctagg 120
tcttcctgtt ctgaccccc atcactgtct gtccagcctt ctgacgtct ctctcgtgga 180
catctgttct ttagctgttg gctttctctg aggtgtgaga gggctctatga actttgtgaa 240
tttcccatg gcccagtgga aggagcccag ataatcccag tagctgttac ctgtctccat 300
gtatcaaagg acacagtcca gggggagggg ggaaggagat gtggtttctc tatagtgcaa 360
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ggtttcagga gcagtcacta ttgtaggatg ggcttccaat caaacctcag actaaactct 480
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ccttagaaa 549

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<210> 87
 <211> 1539
 <212> DNA
 <213> Homo sapiens

```

<400> 87
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cagaccctgt cctcacctg ctttgtctct ggtggctcca ttggtgacga tgagatatac 180
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tctaagaacc agttctcctt gcagctgact tctgtgacgg ccgcgacac ggccacttat 360
tactgtgcga ggagtcggga actccgattc tttgactatt ggggccaggg aaccctggct 420
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ggcaccaga cctacacctg caacgtagat cacaagccca gcaacacca ggtggacaag 720
acagttgagc gcaaatgttg tgtcagagtgc ccaccgtgcc cagcaccacc tgtggcagga 780
ccgtcagttc tctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 840
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tacgtggacg gcatggaggt gcataatgcc aagacaaaag cacgggagga gcagttcaac 960
agcacgttcc gtgtggtcag cgtcctcacc gtctgtcacc aggactggct gaacggcaag 1020
gagtacaagt gcaaggtctc caacaaaggc ctcccagccc ccacgagaa aaccatctcc 1080
aaaaccaaa ggcagccccg agaaccacag gtgtacaccc tgccccatc cgggaggagg 1140
atgaccaaga accaggtcag cctgacctgc ctgtgcaaa gcttctaccc cagcgacatc 1200
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cagaagagcc tctccctgtc tccgggtaaa tgagtgcac ggccagcaag ccccgctcc 1440
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caccagcat ggaaataaag caccagcgc ttccctggg 1539

```

<210> 88
 <211> 1161
 <212> DNA
 <213> Homo sapiens

<400> 88
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 tattcatttg acttattttt tacagcatcc attccctttc atgttgaggag tgttctcttt 180
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 cacaggggat aacactactt tctgaggaca gtatcaggat tgtctgtagt tcctgtgagc 360
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 tcaaaggttg tacaattata c 1161

<210> 89
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 89
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<210> 90
 <211> 826

<212> DNA
<213> Homo sapiens

<400> 90
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<210> 91
<211> 395
<212> DNA
<213> Homo sapiens

<400> 91
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 ccaagatccc cctggcctgg aggcagcagc tgtataaact ctacgaggcc gactttgttc 180
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<210> 92
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 416,432,463,479,482,490,624
<223> n = a,c,t, or g

<400> 92
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<210> 93
<211> 602
<212> DNA

<213> Homo sapiens

<400> 93

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aa 602

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<210> 94

<211> 1085

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1019

<223> n = a,c,t, or g

<400> 94

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```

<210> 95

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 95

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```

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agg 1143

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<210> 96

<211> 2047

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2037

<223> n = a,c,t, or g

<400> 96

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aattgct 2047

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<210> 97

<211> 2082

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2046

<223> n = a,c,t, or g

<400> 97

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<210> 98

<211> 1736

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1180,1181,1260

<223> n = a,c,t, or g

<400> 98

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```

```

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<210> 99

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1343

<223> n = a,c,t, or g

<400> 99

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<210> 100

<211> 1309
 <212> DNA
 <213> Homo sapiens

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 <222> 1272
 <223> n = a,c,t, or g

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<210> 101
 <211> 1322
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1204,1205,1206
 <223> n = a,c,t, or g

<400> 101
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<210> 102

<211> 1908

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1721,1723

<223> n = a,c,t, or g

<400> 102

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<210> 103

<211> 1598

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1040,1562

<223> n = a,c,t, or g

<400> 103

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<210> 104

<211> 1565

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1521,1545

<223> n = a,c,t, or g

<400> 104

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<210> 105

<211> 2314

<212> DNA

<213> Homo sapiens

<400> 105

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<210> 106

<211> 1259

<212> DNA

<213> Homo sapiens

<400> 106

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<210> 107

<211> 1990

<212> DNA

<213> Homo sapiens

<400> 107

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 <211> 1021
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 110
 <211> 1456

<212> DNA
 <213> Homo sapiens

<400> 110

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<210> 111
 <211> 1615
 <212> DNA
 <213> Homo sapiens

<400> 111

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<210> 112
<211> 621
<212> DNA
<213> Homo sapiens

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<400> 112
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<210> 113
<211> 1331
<212> DNA
<213> Homo sapiens

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<400> 113
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<210> 114
<211> 1590
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 1555
<223> n = a,c,t, or g

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<400> 114

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<211> 2410

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = a,c,t, or g

<400> 115

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 <211> 984
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 158,189,782,939,960
 <223> n = a,c,t, or g

```

<400> 116
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cctagctcta aaaaaataaa atagaaacaa attagccagg tgtgggtggtg cacacctgta 120
gtcccagcca ctgaggaggt tgaggcagga ggatcgcntg agcccaggat gcggagattg 180
cagtgcgng agatcgtgcc actgcactcc agtgtgggtg acagagcaag agcctgtctc 240
tttaaaacaa aacaaaaatg ccaccttttg ggagaaactt tgaggccatg ccaatatccc 300
acatcccgct tttcctcaaa cttccacca ctaattttac catccattgg tggccggggc 360
ttgtctacag cagttactgc tgtgctgttt cctgatggc aggtttttgt gtgctctc 420
attccatcta catttattaa ttggaactct tctgtgaagg aagacctgtc ccttccccct 480
tatttcttta tttagttact aatttatatc ctaatgggct catagatact tgttttaatc 540
tagcacattc ctttttcatg tgataaaagc tcccaagttc caagtaaatt cctagcattg 600
cctctcacac agcaggaaga acggcacttt tcctacgtgg taaccagggc cttagggaa 660
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tatgcatttg agcacctact atctgcttct aggcactagg gattcgggaa tgaaaaaaca 780
anctccttac cttaggggaa cggacatcct actggagaat aaaacagtaa acagataaaa 840
agtgaatatg gggctgggca cgggtggctc cacctgtaat cccaacacct ttgggaggcc 900
aaggtgggcg ggtcacttgc ggtcaggagt tcaagaccng cctggccaac atggtggccn 960
tctctactaa acccgtctc ttat 984

```

<210> 117
 <211> 1048
 <212> DNA
 <213> Homo sapiens

```

<400> 117
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aagctcgcgg cccggggcgc catgcgctgg gaacggggtg cgcaggttct acgagaggac 180
gccctgtctg ctgagagctg gctttgttaag gtgtgaaaac aggagttttt aaaagacacg 240
accggggaga agtcagttag agggcacagg gcgagcagga cggacagcga cgtccccgcg 300

```

```

ggccgcgtcg ctggggcgca gaggggcgcg gtggtctctg cccggagggc gtcggtcgtt 360
agtattgcag tctaacgtta tggcttctct aaagctatgt aaggatcatga aggtcaatgc 420
caagccacgc cctggcccgga aacacgtgga gacttgatgc atttttgatg tggacgaaag 480
ggcccggggg cgaggcgggc cctgtcaaga taaaactcat taaatgcaaa gacctcattt 540
acctgagatt caacaaattg tgatgcaaat taaacatgaa tggaggagaa acagggggctc 600
ggatgccgcc ccgcaggcca ccagggtgat taggccacac acgcgccact gcgcgcaggg 660
aaccgccgag gccccacccg aggagctgcc cacggaggag gtgctgggca ggggcgcagg 720
gtctccagcg tccggtgcct cgggcctctg cggctcctgt ggagggtgca gtgttcaatg 780
gccgagggca ggggtcctcc ccaggagaaa gcagcagccg cgtgggcgga gaggctagga 840
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cccaaaccct attgctttgt ttcttttagt ttagaagtga acacggccgt ggcgttcgta 960
agaagcaaaa ccttccagag aggagaggaa aggacgcgga cagagacgga tggacagggg 1020
cccgaggggg ccaggccggg ggcggaga

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<210> 118
<211> 1965
<212> DNA
<213> Homo sapiens

```

```

<400> 118
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gagaactgag gggtaggggg attttagtcc agatattgtg aagctgtctg aacctattaa 120
taccatttac caatccttac ttgatgaaag gaccacaagg agacggaaga tgtcagaaat 180
tagtagtatg tatctgggaa attatcctta atctttcaca taaaatgcga acaccagggg 240
gttagagttg cactttctct gtcagtgtat tggtagactt gttattaagt catgtcaata 300
gccagtaaag ggaaacatct caactaggca catcccattt taatgtctct gtatttttcc 360
ctctccccac ctctatttcc acctcatctt ctaattttta caaatgttcc caatgtttgg 420
gaagtgaagt cagtttgagg gagagacagg atatatctgc acatttactt ctgatttgga 480
catatggttg gcatccttcc tgtgcccttg agtcttttct tagaaatgtt aaatttttaa 540
aaacttgttt atttttgaac gttgcttttt tagaatcacc ctccctaaaa gggagagagg 600
aaaaactgta agtgaatctt attagatttt tgaagtgtct atcataattg aactatttcc 660
ctaagtactg gtagcatctc acctagattt gtccttggaa tggttcctga acgtttcaag 720
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gagactgagg caggagaatc acttgacact gggaggcgga ggttgcatgt agccaagatc 1920
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```

<210> 119
<211> 574
<212> DNA
<213> Homo sapiens

```

```

<400> 119
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```



```

agttcccatc ccaaagatgg gaggttccca gcctggagct gggaaggctg gaggctggga 120
tgccgggctt ctaactctat gctgtgttct atgttgtgtg ccattttcaa cacatggccc 180
ctgcctcaca gcacaagggtg gctgcttgag ctgcagccat tatgtctgca tttcagccag 240
caggacagaa aaggggatga agaacatgcc cctccttttg aaaacattta gggccagggtg 300
tggtggctca cgctgtaat cccagcgctt tgggaggcca aggcgggtgg atcacctgag 360
gtcgggagtt cgagaccagc ctgagcaaca tggagaaacc cctgtctcta ctaaaaatac 420
aaaattagct ggggtgtggtg gcgcatgcct gtaatcccag ctactcgaga ggctgagcca 480
ggagagttgc ttgaacctgg gaggtggagg ttgcggtgag ccgagatcgt gccattgccc 540
tccagccttg gcaacaagtg tgaaactccg tcac 574

```

```

<210> 120
<211> 1334
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 641
<223> n = a,c,t, or g

```

```

<400> 120
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gatgacacct tegtgtattct cagtgtacc ctatcacag cctatcaaag gtagaaaaac 180
tatagttttt cttcagtgtt tattcaattc tttctactct cactccctt ttgtattttc 240
cttctgactc atgcctgcca agctgttttg gcctctgaca acagttgttc tctcatcaat 300
tatggtgttc caagtattca tcacttcatt cctgctgatg tctgttcaca aatattcaga 360
ttttttttac gtgtccagcc tgcttctctt tgttttaagt gtcaagtgtc tttctgtcat 420
tccttttttc tctgtcttac atccctgtgt atcacatcca ttcagatctt ttacttccct 480
catctctgca cccagtaat tctttgtcat aatttcttag aagtatagtc aagaggagac 540
tttcagagag ctgttaattt tatcccttta tttaacagat aaggacattg taatccatgg 600
ggagaaagtg acttacccaa tgttgtaaaa ttcatttagg ngtaggtctt gaggcccaga 660
atatagtctc tccatttcc taaacctttc ctgtcattcc tgtcttcaag gaccgcgttg 720
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cgagactcca tctc 1334

```

```

<210> 121
<211> 989
<212> DNA
<213> Homo sapiens

```

```

<400> 121
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aaacaatagg agtttataat tatgtgctga tgtattcgaa gatgtgttga cagtcgtgag 180
tgtgtatcct aggaaaggcg agctggactc tgtctccatg gtggctctca cccaggggac 240
ctaggaacag cctgtcacca cacaattact tttataaccc tggagatgaa aatctccttg 300
tcctcaaaat acttcagaa gaacaaccag atgggaagga ccttggttgg gactctttcc 360
agttcacttg ggcagaggg aatttaattg ctacgtagc tgaaaaggat gggctagatt 420
gggcttcagg ctgcatccca ggactccaaa cagggatctg tctctttggc tctcagctct 480
gctttcattt gagttggctt tattcttggg cttcacagtg tggccccaca gcaccagtta 540
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```

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atgatattac ctgaagaagg gacgaatggg tgctgggcag gacaaagcat cagctgtcca 780
gttcaggcct ctctctcttc cctggtgtct tcatcttctc cgtctctcct gctgtccctt 840
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ctgggggtac ctgagcctgg attagagggc agggggagga tattgcctag ccaaagtggg 960
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```

<210> 122

<211> 2085

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 728

<223> n = a,c,t, or g

<400> 122

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tggggctggc cctggccctg aaagtgcctt tcttcatcgt ggtcagcaag atcgacctat 120
gtgccaagac cacagtggag aggacagtac gccagctgga gcgggtcctc aagcagcctg 180
gctgccacaa ggtcccatg ctggtcacct ctgaggatga tgccgtcact gctgcccagc 240
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tctactctt taggcattga ctctcctttc cctttgttag tgcctgggt tcccatggac 1980
tcagggattt gttggctaag gtttctctgt gcatatatat atatatacat atgtatatat 2040
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```

<210> 123

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 123

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catcacctgt	atgaggaatt	ccctctgtgt	taaatatctg	gagaagtttc	ctgattggac	180
cctggctgtt	gcagcttcca	aggccacctc	tctttgtggc	tggatccctt	ttcccatgca	240
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taaaatggct	ttaaagaata	tatatatatt	tttaaagtag	cttgagaagc	aaattggcag	1740
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ctttcttata	aaaaac					1816

<210> 124

<211> 2222

<212> DNA

<213> Homo sapiens

<400> 124

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ttctcagacc	aaattctaga	ccaaagacac	aggcagacca	agtccccagg	ccccgcctgg	180
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gatgcccgca	catagcccag	ccagccagat	ctggaaagga	agcgaggggg	ttgtttaaat	480
caatttttta	agatgaagaa	gtgggagaca	ctgcgttgag	atgggccatg	ctagggccac	540
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 <212> DNA
 <213> Homo sapiens

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<400> 126
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<210> 127

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 127

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<212> DNA

<213> Homo sapiens

<400> 128

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<211> 1099

<212> DNA

<213> Homo sapiens

<400> 129

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<210> 130

<211> 1307

<212> DNA

<213> Homo sapiens

<400> 130

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 <212> DNA
 <213> Homo sapiens

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<211> 2108

<212> DNA

<213> Homo sapiens

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gtgagtccca taggttttgg acattttagt ttccctcttc ccttttgtga aatgtagaat 1560
agtgtgtctc ttttgccctt tctgtctatc tgctcctagc tgtactgtca ccctgtcttt 1620

```



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aggggagaag tctcatgttt atagtgcctg tgagggtcagg gaaggcactg tcaatgctgt 1680
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gaataatgca acaaatacct gtacacctca cctggatccc acagttgtta gttcttcagc 2040
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```

<210> 135

<211> 1472

<212> DNA

<213> Homo sapiens

<400> 135

```

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acacacttac tggatgttat gcagatcagc attcagttca agtttttgca tcaggaaaac 180
caaaaataag tgcacaccgg aaactaattt cttctgatta ttacatctgg aattctaaag 240
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tatataatga taacagttta aagaaaatca taatcttata tttttaatgt ggatgcatat 360
aacctgtgag tgaaaaatca ctgaatgatt taattgtaaa agtagtctta tgtggtgttt 420
gtagtctgat agagcttgaa aggacatttt aaaaagctaatt gtctccaatt ttgttaacct 480
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```

<210> 136

<211> 1524

<212> DNA

<213> Homo sapiens

<400> 136

```

cttttctgtc ctctccagg atgggggtcaa cggccatcct cgccctcctc ctggctgttc 60
tgcaaggagt ctgtgccgaa gtgcagctgg tgcagtcagg agcagagggtg aaaaagcccc 120
gggactctct gaggatctcc tghtaaggct ctggatacac ctttaccac ttctggatta 180
gctgggtgcg ccagatgccc gggaaaggcc tggagtggat ggggaggatt gatcctaattg 240
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actggggcca gggaaacctg gtcaccgtct cctcagcatc ccgaccagc cccaaggctct 480
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gaaagcggac agggcgtgac cgccagaaac ttcccaccca gccaggatgc ctccggggagc 600
ctgtacacca cgagcagcca gctgacctg ccggccacac agtgctatc cggcaagtcc 660
gtgacatgcc acgtgaagca ctacacgaat ccagccagg atgtgactgt gccctgcca 720
gttccctcaa ctccacctac cccatctccc tcaactccac ctaccccatc tccctcatgc 780

```

```

tgcaccccc gactgtcact gcaccgaccg gccctcgagg acctgctctt aggttcagaa 840
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acgccctcaa gtgggaagag cgctgttcaa ggaccacctg agcgtgacct ctgtggctgc 960
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gttgtcatgg cggaggtgga cggcacctgc tactgagccg cccgcctgtc cccaccctg 1500
aataaactcc atgctcccc aagc 1524

```

<210> 137

<211> 1362

<212> DNA

<213> Homo sapiens

<400> 137

```

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ataatttggg gaaggccagg cagaataaat gtgtggggag ggtgcagcca gtggcctcct 180
cagctgtttt tcatgagtct tgaatgtaga aggaggggga gagaatagcg agaggggaatt 240
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gttccatttg ggaactgccc ctccccatt ctgggtccag tgtcccatcc attgcagagg 360
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agaggaagga caccttttgt ttttctgact gtctggcgaa gga;atcaag atgattgcac 480
atgcaaacaa gttcgtcagt gccaccattg ccacctgagt attgggtgct caagtggaac 540
aggggacttg aggaaggttg ggaagcgttg gggagtggct ggtgaggcaa accgaagtgg 600
gcccaccggg acggagagct gggtttctca acctttgcac gactgacatc ttgggcccga 660
taattctgtg ttgtgggggc tgacctgtgc actgtaggat gtttagtggc atccctgggc 720
taaatccact ggataccaaa gctcacaccc ttctctccag tcataacagc caaaaatgtc 780
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agtcttcatg gctgtatttg ttgtgtttt ctctgtggag taggagcaga gaagatgaag 960
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```

<210> 138

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 138

```

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caaagtcttg ctttgtcgcc cagggtgaag tgcagttgtg cgatctcgac tcaactgcagc 180
ctccaccttt tgggttcaag agattctcat gcoctgagcc cttgagtagc tgggattaca 240
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acattgggtca ggctgggtcag ttttgtgttc ttactagaga gttctactct gttatgtcag 360
agaaggaaaa tgtcttttga ttctatttca atgaaatgtc tattcattaa ttacatcttc 420
attggcattt catacaggat taagactatc ttctttgcct taatggtata ctgtgtgcat 480
tgttccctac ccatcgtagc agctttgaag gtctttttat catattggta ttttccagta 540
ccagaaaacc aagtcttgaa agaaggactt catgtcttat ccatggacac gccatggttc 600
cagaatgtgt tgtcagttga taagataggc ttgatttgtt actggtctta atgagggctt 660

```

```

taggtcagca caccaggcaa tgtaggagtt ctgggactgt tagggaaggc ctcaacaaca 720
ggtgtatttt cctggagatc agttttgtgc gaagccagta aaccaatcac ccgagcaacc 780
ttggcccata tatcacagtt tgcagctatc cacaaatgct ggattagcaa ttggaactag 840
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tcaatgtcac agcagaaacc ttgcagttta ccagatgacc cagtaaagga accaacaccc 1440
acaaccggtt ccacatgggc agttaattcc agtcactgat gagaaggga aaggtctctt 1500
agaaa 1505

```

```

<210> 139
<211> 1579
<212> DNA
<213> Homo sapiens

```

```

<400> 139
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aagtgcacat gaggtagtag attattttat catctctgag gaagagatta attaatcttg 180
gtgttatgat tctaatacac tctccatac tcaactacaat ggtttgttta tctgtacta 240
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tgagggaagt gtagagctac acaggcctga cccactacat ctgtgtattg tttgaggaca 480
gcctggactt cgttacatgg tatcactctg ctactcatct ctcatgtgct tgtctgtcat 540
atcaccctta tggcttatcc tgtacttctt aagttccagt tctttttgc tactattcta 600
tttctattca tcccatttcc attgtatcta taatttttagc aaaaaaaaat tcttgactt 660
tatgttttag ctactatcct atttcttctt tattataaaa tgttttcagt gagtcttcat 720
ttgctgtccc aatttctcta agagactaat gtggttcagt agaaagaata cgggatttga 780
aatttaaaaa ccttgagcga agttaattta ctctctctga taataataat tttcctacag 840
ggatgttatt agatgatcat ctgttaatat tttaatatgt gtaatgttac aatttgttgt 900
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aaggtttttt tcccccttat ttacataatg gctaattagt ggtagtagg tagatgggag 1140
tgggtttgtc cattttcaaa atgtggtctt gtaacgaaaa agcaagttag atgcccacta 1200
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aggcaggtgg agaggggacg caggagagaga gagagagaga ggagagaaaa aggagagaga 1560
gagagagagg agagagagg 1579

```

```

<210> 140
<211> 1641
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1572,1575,1576
<223> n = a,c,t, or g

```

```

<400> 140

```

```

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ccagtgtcag gtgcagctgg tgcagtctgg gggaggcgtg gtccagccgg ggggggtccct 180
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gcgggtaaac ccacccatgt caatgtgtct gttgtcatgg cggaggtgga cggcacctgc 1560
tactgagccg cncgnnctgt cccacccctt gaataaactc catgctcccc caaaaaaaaa 1620
aaaaaaaaata aaaaaaaaaa a 1641

```

<210> 141

<211> 1492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1066,1457

<223> n = a,c,t, or g

<400> 141

```

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ctcagccacc agtggccttg cggatattgtc caccatccac tagagtggga tgaagtccag 180
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```

```
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tcaccc+cg cctttcctcc ggttcagtag ctattgtttc tcctttcaaa tatgtgattg 1440
tactagctct ttccatntga aagaattctc cttattttaa taaaaaaagt tt 1492
```

```
<210> 142
<211> 1816
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 1777,1780
<223> n = a,c,t, or g
```

```
<400> 142
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cccttgacgt tcagttcatg cccacccccg gaggcctaag ctgctttgaa gcagaacagc 120
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tttaaagtaa tgaattggtt gttttaataa atatcataaa tgatcatttt ttaaaaagtg 1620
aacaatatac agaagttcaa aaaagcaaat tcctcccacc agaaatacca gtattattct 1680
ggtgtttgat tgaacatttt ctctctgcat atatagaggc agagcagtggt gagtgtggct 1740
ggaccgcaa taattttata ggaatgtcag cctccanctn ttaatctacc tttgatcgac 1800
tactcattgt tgaggg 1816
```

```
<210> 143
<211> 2230
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 2165
<223> n = a,c,t, or g
```

```
<400> 143
agaatagggt gaggggtgtg gtggggcgta gatgggggtg tgctgttgat atcatccctt 60
aaggggaagga tattgctttt gtgggaggga aaaggcagga aaaatatccc actctatatg 120
```

tataaagcac	agttatacat	acagcatata	tgcagacata	taattttgtct	atgggtattaa	180
aattttcatgc	atgggggcaat	taggaaaaaaa	gcgtctaaaa	atgctcttag	ggagatgatg	240
ttgaaaaaaa	agttgagaaa	tactgggcta	gaccaaaca	gatccattgc	ctgaagctta	300
cgtattatct	attactgatg	acaaagagag	gcacaggtat	ggagtggcaa	actaacaatg	360
cgtgccgtag	agaatgtcat	acattaaatt	aatgaacagc	ttactttatg	ttgtaattgt	420
tgttggctct	ctctcattgt	actgtaaaca	tcttaaaaagt	gggaactgtg	tcttattttcg	480
atgtatatct	ttgtatatta	gcacactagt	ccctcaagag	gtatgttttg	taagttgaat	540
ggaacaaaca	acatttttatt	taacatatac	tttattttcta	tttttttttaa	atttttattta	600
tttattttatt	ttgagacagc	ctctctcttt	gtcaccgagg	ccagagtgc	gtgggtgcaat	660
ctcagctcac	tgcaacctct	gcctcctggg	ctcaagagat	tctcgtgcct	cagcctgccg	720
agtgcctgcg	attgcaggcg	cgcgccacca	cgctgactg	gttttcgtat	ttttttgggtg	780
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ccagcctcag	cctcccggag	tgccgggatt	gcagatggag	tcttgttcac	tcagtgtca	900
atgttgccca	ggctggagtg	cagtggcggtg	atctcggctc	gctacaacct	ccacctccca	960
gccgcctacc	ttggccttcc	aaagtgccga	gattgcagct	tctgcccagc	cgccaccccg	1020
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ctgcccggct	gcccagtcgt	ggaagtggag	agcacctctt	accggccgcc	atcccattcta	1140
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aagtgaggtt	ggaagtgtgt	ttactgagcc	aggagctata	acaggtgctg	gagcaggggt	1740
gtgatctgaa	tgaccagagg	gaaggactga	tggaattgga	tggtgagagc	ctccaggccc	1800
tttaggtctt	tcctgacttc	tataatgaaa	tacaaaagtc	agcctccatg	cttgctcttt	1860
gtgtgtatat	gattgtcaaa	ctctgtctat	atgtgttaca	tttgaccttg	atgggttaatt	1920
cattatgtaa	taagttcaga	atltgggaca	gacacagtgg	ctcatgcctg	taatcccagc	1980
actttgggag	gtcgaggtgg	gcggatcatc	tgaggtcagg	agttcgagac	cagcctgacc	2040
aacatggaga	aaccctgtct	ctactagaaa	tacaaaaaat	tagccaggcg	tgatggcaca	2100
tgcctgtaat	cccagctact	cgggaggctg	aggcaggaga	atcgcttgaa	ctcgggaggc	2160
agtgnntgtg	gtgagccgag	atcgcgaca	ttgtactcca	gcctgagcaa	caagagcgag	2220
actccatctc						2230

<210> 144

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 996

<223> n = a,c,t, or g

<400> 144

ctgataggaa	atgactaagt	agggactata	ctgcctttca	cgccctggcc	tttgcacaat	60
gccctgtctc	tccttgtggc	ctggcctccc	cttcctttctc	cctccactgc	cccggccccg	120
gggtgggcca	tgaggcacct	gcacattgtc	agtattgaca	atggccccag	tgatgttgga	180
gagcaggtgg	atgaactcct	cctcgaagcc	gcgcacacgg	tcggggatct	cgtaaatgac	240
gatcttgacg	cgctggctgt	ccctcaggat	gtagatgccg	atgatggccg	tgctggtgtg	300
gcctgccagg	tctcgggcca	caatgtccac	cacgaagtag	ccggggctgt	aggccatgaa	360
gaggtcgaag	gtgcgcagaa	tgccgtccat	gctccctgca	ggaagcccaa	aggcggggta	420
cggctcagag	actcagtgcc	ccgaatcccc	aggaaggggc	atgagccctg	gggtaggtgg	480
ggcacatcta	ggggaggcgg	cacaaatgcc	cacagggcac	agcagggagc	aaaggtgaca	540
ggcaagtggg	aacgatgccc	atctgaagtg	gaaatggctc	aggtctcagc	cggttatcat	600
cacaggggag	tgccgatgac	aagtttgtga	ctctgttgtc	ccatgctagg	gtgcgaagga	660
ccattttctga	gccccctgag	tgtctgtctg	tttctctctc	ctctttcaaa	cacatgtacc	720
tcagaattcc	acaaataaagc	ccgggtgtgg	tgctcacgcc	tgaatctcaa	cactttggga	780

```

ggctgaggcg ggcagatcac ttgaggccag gagtttgaga ctagcctggc caacatgatg 840
aaaccccatc tgtactaaaa atacaaaatc tagccaggcg tggtagtgca tgcacctact 900
cccagctact tggcaggctg aggcgggaga gtctcttgag tccgggaggc agaggctgct 960
gtgagctgag attgcacctc tgcattccag cctggncaac agacagagtg agagtctatc 1020
accag 1025

```

<210> 145

<211> 994

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 963

<223> n = a,c,t, or g

<400> 145

```

cacagggtta ccagctgctg gccacacgcc tctgccaaaga cattgatgag tgtgagtctg 60
gtgcgcacca gtgctccgag gcccaaacct gtgtcaactt ccatgggggc taccgctgcg 120
tggacaccaa ccgctgcgtg gagccctaca tccagggtctc tgagaaccgc tgtctctgcc 180
cggcctccaa cctctatgtg cgagagcagc cttcatccat tgtgcaccgc tacatgacca 240
tcacctcgga cgggagcgtg cccgctgacg tgttccagat ccaggcgacc tccgtctacc 300
ccggtgccta caatgccttt cagatccgtg ctggaaactc gcagggggac ttttacatta 360
ggcaaatcaa caacgtcagc gccatgctgg tctcgcgccg gccggtgacg ggcccccg 420
agtacgtgct ggacctggag atggtcacca tgaattccct catgagctac cgggccagct 480
ctgtactgag gctcaccgtc tttgtagggg cctacacctt ctgaggagca ggagggagcc 540
accctccctg cagctaccct agctgaggag cctgttgtga ggggcagaat gagaaaggca 600
ataaaggag aaagaaagtc ctggtggctg aggtgggcgg gtcacactgc aggaagcctc 660
aggctggggc aggggtggc acatttgaca ggagctggga gctctgcacc aagcgcttca 720
tatgttcagg cccaggggcc cccattgaca ggcagctggga gctctgcacc aagcgcttca 780
gtcacccgga gaggagagga ggtaacgagg agggcggaact ccaggccccg gccagagat 840
ttggacttgg ctggcttgca ggggtcctaa gacactccac tctggacagc gccaggaggc 900
cctgggttcc attcctaact ctgcctcaaa ctgtacattt ggataagccc ttgttgttcc 960
ctnggcctgt ttttctataa aacgaggcaa ctgg 994

```

<210> 146

<211> 1913

<212> DNA

<213> Homo sapiens

<400> 146

```

caaaacattt agctcatctt attctctctt tgtcctctct cccctcctgc ccgcccgcac 60
cctggaattg ccaactcagtt cctctgggtg tgcacatatg tttggagaaa tagaggagag 120
aaaagagggc cacgtaactg agagcttaca gtgccaatgc cgtttgtgtt ctggccagag 180
tggagtgcgc agccctgact cccaggcgct gagattgttg cctggttacc caggaagctg 240
ctgttccggc tgcccagcct ttctctgagc cagcggatgc acagtccgtg gccttcttca 300
ggcttattga tgatgctttt tgcaaagtgt gaatcatggt tctgttttcta agttggatct 360
ttttgtttt ctccctgcca ccctaatttg acatcaaaat tctctcttgt gcattgggcc 420
ctgggtcatt caaacccagg tcacctcatt ccccttctct gtacacacct aatgtcttga 480
agagtaggta gcagcagtg gggctgaacc taggccagct tgcttagcgg gtcaccctgc 540
tgtgaagtcc tggcagggtg tggtaatgtg tggaaatgca gtcagcaagt ttgctgggga 600
gtttgataaa agtataaaac aaaacaaaaa aagcctcggt ataattttgt tccacgactt 660
cttctgtagc tttacaccag aaggaaggaa tgggctacag caggtagtgg aggaagaggg 720
gggtgagcag gtgtattaaa atagcttacg ggtaaggcct aaaaggtcac cctcggccc 780
cctctccaaa agaagggcat gggcacccc aggagaggat ggccccaaaa accttatttt 840
tatacatgag agtaataaaa catatttttt ttacaaaaat aacttctgaa tttatcagtg 900
ttttgccgtt aaaaatatto ctctatagta aattatttat tggaagatga cttttttaa 960
gctgccgttt gccttggtt ggtttcatac actgatttat tttctatgc caggcagtag 1020
agtctctctg cctctgagga gcaggctacc cgcaccccac tcagcccctc cctaccctc 1080
aagatttgat gaaaattcca accatgagga tgggtgcac ggggaagggt gagaaggaga 1140
gcctgcctgc tcagggatcc aggtcgtgag agtcactccc tgcccgtctc ccagagatgc 1200

```

```

ttcaccagca cctgcctctg agacctcgct ctctgttcca gcaaccctgg ttgggggggtc 1260
agacttgata cacttttcagg ttggggagtgg acccacccca gggcctgctg aggacagagc 1320
agccaggccg tcctggctca ctttgcagtt ggcaactgggt tggggaggaa gagagctgat 1380
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cgaccccatc agcctctcac ccactcccag acacacacaa gtcctcaaaa gtttcagctc 1620
cgtgtgtgag atgtgcaggt tttttctagg gggtaggggg agactaaaaat cgaatataac 1680
ttaaaatgaa agtatacttt ttataatttt tctttttaaa acttggtgaa attatttcag 1740
atacatattt tagtgtcaag gcagattagt tatttagcca ccaaaaaaaaa gtattgtgta 1800
caatttgggg cctcaaattt gactctgcct caaaaaaaag aaatatatcc tatgcagagt 1860
tacagtcaca aagtgtgtga ttttatgtta caataaagcc ttcctctgaa ggc 1913

```

<210> 147

<211> 982

<212> DNA

<213> Homo sapiens

<400> 147

```

ggaatgataa attgggccag ggcaagaaaa atctagcttc atataatttg tctgggacta 60
tacaccctat ataattgtag ttttacagaa gtaatatgac ttttgattgc tacataccac 120
aaagagttta tgaactgaga tcataaaggg caactgatgt gtgaagaaaag tagtcagtac 180
atcctggctc atgtcttgaa agaatatcca gagaggctct ctcaaagatc agggagatgt 240
attcccatgc catgcaccct gcttcccagc atttctgcat ggtcaagtga gctttatgct 300
catgagcttt aagtatataa ttatccagga ttttaaatec tcaacttgtt ctagcttgtg 360
atccctcaaa gttgggtcat acgttagtgc tagatactag aaattttcac ttttccactg 420
atcagagaga cagacattaa aaacaaaaat agaagaaagg aaagctttca ccctgcagct 480
tcttagcagg gaacaattgt cttgccaaaa cttttttccc ttttctccc cattttcttt 540
taccatccct cttcttactc cttgccagtg tgaccatgct ttcttctctg tagatgtaa 600
cagttaaggc ctatttttct cgggcactta accaaccaat cagaacacca catctgtaa 660
gggaggtaac ctggccaaca gtgtatccat cacgttagcc ctgctggagg gaagggaccc 720
acattcacct gccctctgac ctgccccttg atcccatatc tattaccgtg tccataggaa 780
taataggtaa gggctctgtc tctgtcaagc catgtaacaa aggacactgt taaaaaaaaa 840
aaaaagtctg gcatcagagg gagcatgtgg agagcaactt gggaagaaca agttcatttt 900
gtattgaatg atttttaatg aatgcaatat taatccttgc agatgagcaa taatcattaa 960
aatcgattaa aatgataaga cc 982

```

<210> 148

<211> 1078

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1053,1057

<223> n = a,c,t, or g

<400> 148

```

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atatgtagag gacctaccaa gccactgag ggactaggtt ttcattgtctc tgggtcatacc 120
tagaatgttc tgagccgtct gagggccttc atgccggcag cagctagcaa agccagaaaag 180
caagtctaac aggatctaag atgaccatca ggagaaggag tttgagactg tgtatgcaac 240
ccccaataga ccccttttta ctctgatctg gagaatgtat ctggcttcat attttcaagt 300
cacatgtctc tcagaccctt ggattcagaa cccaaggcca caaatcatag gcatgaagca 360
ctttcttaag actgacctaa cgctggatta tttcccgctc aatgcctgca tgctgcttga 420
attgctccac ccacacctcc atgaccaagg gcgccagagt gctgcaactg gggcgtgggc 480
cgctctctgc ttttctgtgc tgactctgac aagtcctccc tcaactgaatg tagaatcgtt 540
gccaaagttc tgagaagtgt cgattccctg ttaacatgga tatcagttct gcctcacatt 600
tcccacttga ggttgaggcg tactggagac aacacctcag accatctgaa ccccatcagt 660
ggacgaaaaat ggggctgtta atatactcta aaagccatac taaaaatgct ctgagggaac 720
tggctaagaa tagtgggcct ggtgattgtc tatcacgcaa ggctttgttt tgtactgttc 780

```



```

agaaatctgt  caccttttctg  cctgcccttg  tttcctgaat  gaaatgcttc  tgggggttatt  840
tatgaaagga  gtgatcctgg  ggcaggcagg  aggcagtggg  cttcatggct  ctttgaagtt  900
attactgata  ttgaccttct  ctttggttac  ctttagacaa  agaatacgcc  aatcaatact  960
tggggctcta  agttttacaa  ttgatattta  tttgtatcat  ctctttgtct  aggaatgtaa  1020
aagtgattct  aaactaagat  gtgtaataaa  aancaancag  atttattgta  cctacaag    1078

```

<210> 149

<211> 1310

<212> DNA

<213> Homo sapiens

<400> 149

```

gtggggactg  ttaggtacaa  gagagcaaga  aggtgagggg  ggccctggcac  agtgggtcat  60
gcctgtaatc  ccagcacttc  aggaggccga  ggcaagcaga  tcatttgggg  tcaggagttc  120
gagaccagcc  tggacaacat  ggtgaaaccc  tgtctctact  aaaaacagaa  aaattagccg  180
ggcgtggtgg  tgcgtgtctg  taatcccagc  tactggggag  gctgaggcag  gagaatcact  240
tgaacctggg  atggtgaggg  gctgttgggc  tggctccgtc  gcagagggga  gatgggaaag  300
gctgacaact  gtgcccaccc  ccagggtata  ttcaggcctg  ccgggcactc  atgatcaccg  360
ccatcctcct  gggcttcctc  ggctcttgc  taggcatagc  gggcctgctc  tgcaccaaca  420
ttgggggctt  ggagctctcc  aggaaagcca  agctggcggc  caccgcaggg  gccctccaca  480
ttctggccgg  tatctgcggg  atggtggcca  tctcctggta  cgcttcaac  atcaccggg  540
acttcttcga  ccccttgtac  cccggaacca  agtgagttag  gaaaccccc  acccccgcc  600
ctcggggcag  cgggtgggac  tcagccctgc  ccccggctg  gcgtctcact  tgtccccgc  660
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gcctcactga  tctccatcct  gggtagccct  tgccctctgt  ccgctgctg  ctgcggtct  780
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gagagaggag  ggccgcgcc  ccgctctgac  cccgggccct  cccgcagcg  cccggcgcc  900
ctaccaggct  ccagtgtccg  tgatgcccg  cgccacctcg  gaccaagaag  gcgacagcag  960
ctttggcaaa  tacggcagaa  acgctacgt  gtagcagctc  tggcccggtg  gcccgctgt  1020
cttccactg  ccccaaggag  aggggacctg  gccggggccc  attccccat  agtaacctca  1080
ggggccggcc  acgccccgct  cccgtagccc  cgccccggcc  acggccccgt  gtcttgact  1140
ctcatggccc  ctccaggcca  agaactgctc  ttgggaagtc  gcatatctcc  cctctgaggc  1200
tggtaccctc  atcttctgac  cctgggttct  gggctgtgaa  ggggacggtg  tccccgcagc  1260
tttgtattgt  gtataaatac  attcattaat  aaatgcatat  tgtgaccgtc  1310

```

<210> 150

<211> 858

<212> DNA

<213> Homo sapiens

<400> 150

```

gtatagggga  gaagccgcgt  gagatccgcg  cgggtgctag  ctagtccctt  ctgctcgctg  60
ctcggctcgc  ggcccgtagg  gtcggccccg  ccaccgttgc  cgccatgcc  atgaagggcc  120
gcttccccat  ccgccgtacc  ctgcaatatc  tgagccaggg  gaacgtgggt  ttcaaggact  180
ccgtgaaggt  catgacagtg  aattacaaca  cgcattggga  gctgggcgag  ggcgccagga  240
agtttgtgtt  tttcaacata  cctcagattc  aatacaaaaa  cccttgggtg  cagatcatga  300
tgtttaagaa  catgacgccg  tcacccttcc  tgcgattcta  cttagattct  ggggagcagg  360
tcctggtgga  tgtggagacc  aagagcaata  aggagatcat  ggagcacatc  agaaaaatct  420
tggggaagaa  tgaggaaacc  ctcagggaag  aggaggagga  gaaaaagcag  ctttctcacc  480
cagccaactt  cggccctcga  aagtactgcc  tgcgggagtg  catctgtgaa  gtggaagggc  540
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ctgaccagtg  gggagattgg  aatgggatta  ctttggccca  gggaagcccc  tggttctgtc  720
cctggagact  ctggaaatcc  ttttgcat  aaaggacttt  acacacctgt  gtaaaaggat  780
gtgggagagg  aggggtctgaa  gctgagctgc  taaatgaata  tccctgctct  gctggtcaat  840
aaaacgcttc  ctaatagc  858

```

<210> 151

<211> 1154

<212> DNA

<213> Homo sapiens

<400> 151

```

ctgacacatg cctctgcctc tgaatgtgaa gggaaactgg accagctcag tgtcaagcct 60
gaagaagaat ccatggtaat tccagagaca gacatttcct tgttcctggg gactgagcag 120
tttgaagttt ccaaagatga aaacatctac tctgaagaga cctgaatgga caagagatgt 180
tttctctctt cttaccataa taaaagagga ctgctcctga ccacaggata tgcctgggtcc 240
aggaaatggc cacatttccc cctcaggac ctctacttgg atgggctgcc ttggaaataa 300
gaatgatgaa aatccaaaac actgacaaaac cgaatgctat caaggatgtg gagcacagga 360
actctttattc aatgcaaaat gatagagcca ctttgggaaga cagcttggca atttcttaaa 420
aaactaaaca gactctcatc atatgttcca gcaattgtat tccttgggtat ttatccaaag 480
gagatgaaaa cttatgtcca cacaaaaacc tgcattgtga tgtttatggc agttttattc 540
atatggccaa gacttgggaag gaacaaagtt gtccttcagt gggatgaatga ataaataaac 600
tgtggtacat cttgacaatg ggatattatt cagcactaaa aggaaatgag ctatcaagcc 660
atgaaaagac atgaaggaac cttaaatgca tactactaaa tgaaagtagc ccagtctgaa 720
aaaactactt actgtatgat tccaaatata tggcagctctg gaaaagccaa aactatgaag 780
acagtaaaaag gatcagtggt tgctaggggt tgtggggagg gagggatgaa tctgcagagc 840
agagaggatt ttaagggcag tgaaaatact ctgatactat aaaggtggtg acatgtcatt 900
atacatttgt ccaaaccatc agaatgtaca acaccaagag tgaaccctaa tgtaagctat 960
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atatggtata ttgatagtgg gagaggctat gcccttggtg ggaagggga tacataagaa 1080
ctctctgcac tttccactca attttggttg atgaccctaa actgattctg gaaaataaag 1140
tatattaaaa gttc

```

<210> 152

<211> 2290

<212> DNA

<213> Homo sapiens

<400> 152

```

atcttctgag gatgaatgga atttactgta tgttgagta actcgagcca agaagcgtct 60
catcatgacc aaatcattgg aaaacatttt gactttggct ggggagtact tcttgcaagc 120
agagctgaca agcaacgtct taaaaacagg cgtgggtgcgc tgctgcgtgg gacagtgcaa 180
caatgccatc cctgttgaca ccgtccttac catgaagaag ctgccatca cctatagcaa 240
caggaaggaa aacaaggggg gctacctctg ccaactcctgt gcggagcagc gcatcgggcc 300
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<210> 153

<211> 446

<212> DNA

<213> Homo sapiens

<400> 153

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ttttccccc tttaactgca ttgcctattc ttttttcctg acatgctatc aggtatcagt 360
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<210> 154

<211> 2732

<212> DNA

<213> Homo sapiens

<400> 154

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<210> 155
 <211> 582
 <212> DNA
 <213> Homo sapiens

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<400> 155
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gagacaggag aattgcttga accggagagg tggaggctgc agtgagctaa gatcatgcca 540
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582

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<210> 156
 <211> 731
 <212> DNA
 <213> Homo sapiens

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<400> 156
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cgcagctcag taagaaaatg cttttgagct ataaccaggt ttgagtacca ttggtacatt 180
agaatcacag agtcagattt tacttttttg ggcagtggtg ggtgtggata aagtatctcc 240
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atcaagaaca ataaaatcca tcttgtttat ttcagagat tgggtgtgagg accaaatgaa 480
atagtatatg ggaagggtgt taaaaagttg tgagttctac acgacttaaa aatgccagta 540
ttatgaatgc aaccattctt tgttgtcatt tgggtagtcg tggatagcgt ggtggttagga 600
gagccactat cggagcaaga ctgttccaga gggtaaaaca cacgcgtgcc tgtagagcag 660
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tagtgttctc c
731

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<210> 157
 <211> 868
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 832
 <223> n = a,c,t, or g

<400> 157

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tgttcatagg	ttctcaaccc	tcacccccca	ccacgggaga	ctagagctgc	aggatccag	780
gggaggggtc	tctcctccca	ccccaaagga	tcaagccctt	ctccctgcac	tnaataaacc	840
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<210> 158

<211> 857

<212> DNA

<213> Homo sapiens

<400> 158

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<210> 159

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 159

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agacaccaca	gctgattttc	tcctgaccac	tatgcccact	gactccctca	gtgtttccac	180
tctgccccctc	ccagagggttc	agtgttttgt	gttcaatgtc	gagtacatga	attgcacttg	240
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ccacagctgg	actgaacaat	cagtggatta	tagacataag	ttctccttgc	ctagtgtgga	660
tgggcagaaa	cgctacacgt	ttcgtgttcg	gagccgcttt	aaccactct	gtggaagtgc	720
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tcctttcctg	tttgcatctg	aagccgtgg	tatctctgtt	ggctccatgg	gattgattat	840
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tctgttgata atcacc                                     1456

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<210> 160
 <211> 585
 <212> DNA
 <213> Homo sapiens

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<400> 160
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aaaaattttc gaagatatac caacgcttga agacctggct gaaactctta aaaaagaaaa 180
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cccattctcc aagacctcat tgtcagctcc acccaacagt tcttcaactg agaaccggaa 480
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agtgaaggta ctgagtacaa caaagccatt tgaatatgag acccc                                     585

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<210> 161
 <211> 592
 <212> DNA
 <213> Homo sapiens

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<400> 161
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gttgagtatg atctgaacca gaaataaagg ctttccccag ttctttaaat tcattcagtt 180
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<210> 162
 <211> 3760
 <212> DNA
 <213> Homo sapiens

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<400> 162
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gaatgtatat acatgtcacc atggattgga actgttttgc atatcaggga aatcatagcc 240
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tggggagagg gttgttttta ttacagtaca ttacaggaat tgtatgttca cttcgaatca 540
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<210> 163
 <211> 766
 <212> DNA
 <213> Homo sapiens

<400> 163
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<210> 164
<211> 3999
<212> DNA
<213> Homo sapiens

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<220>
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<222> 3578
<223> n = a,c,t, or g

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<400> 164
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<210> 165

<211> 1474

<212> DNA

<213> Homo sapiens

<400> 165

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1474

<210> 166
 <211> 366
 <212> DNA
 <213> Homo sapiens

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<210> 167
 <211> 1926
 <212> DNA
 <213> Homo sapiens

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<210> 168
 <211> 1278
 <212> DNA
 <213> Homo sapiens

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<400> 168
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<210> 169
<211> 325
<212> DNA
<213> Homo sapiens

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<400> 169
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tatataagaa ttttttgaat atctt                                     325

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<210> 170
<211> 594
<212> DNA
<213> Homo sapiens

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<400> 170
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<210> 171
<211> 1061
<212> DNA
<213> Homo sapiens

```

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<400> 171
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ggcttggcc ccgccttagg ccccgccagc aggcgaagca gggagatgtc agactgctac 120
acggagctgg agaaggcagt cattgtcctg gtggaaaact tctacaaata tgtgtctaag 180
tacagcctgg tcaagaacaa gatcagcaag agcagcttcc gcgagatgct ccagaaagag 240
ctgaaccaca tgctgtcgga cacagggaac cggaaggctg cggataagct catccagaac 300
ctggatgcca atcatgatgg gcgcatcagc ttcgatgagt actggacctt gataggcggc 360
atcaccggcc ccatcgccaa actcatccat gagcaggagc agcagagcag cagctagaga 420
cccctttggc cacaccttcc aggcaactggc ctgatgcccc gccctggtgc tctccccagg 480
ctccctcctc agcctcctgc ccaccaggg ccctttactc tcttctccct ccagaccttc 540
ctctgaccct tgctgaactg gggtccttt gtgagtgtct cagtctagag gtacctccct 600
ccctgggggg tctcagctcc tggagtgcga ggcccttggg gccctctgt gagatctcaa 660
tgctgtctgg ggaccctaag agttttctca cctgttcagt ctcatctaac cttccaatgt 720
ctgatgttcc tgccaaattc ctgacctgatt ctgggtccgt cctgacctcc aaaggtcagc 780
ttggtgcttg aggtctccct gctcttggtg gcagtggtag cagcaacagc agcagcagca 840
gcagcagcag cagcagagac ctctccactt tcccttagcc cctctgctgg gtagagaggc 900
actttcaggg acttccctcc agctgcctct tcatctggga atgagctaag caaggctgag 960
cctcctcctg ttgcttgaat taatgatgat ataaaggctg gatttggagt ttgtatcccc 1020
tggtccctct gggatgctca ttaaaacctt cccactcctt c 1061

```

<210> 172

<211> 347

<212> DNA

<213> Homo sapiens

<400> 172

```

acattcgttg aaggacacca gctgcggaat ttgcggcttt ggcagattga aatcatggca 60
ggtccagaaa gtgatgcgca ataccagttc actggtatta aaaaatattt caactcttat 120
actctcacag gtagaatgaa ctgtgtactg gccacatatg gaagcattgc attgattgtc 180
ttatatattca agttaaggct caaaaaaact ccagctgtga aagcaacata aatggatttt 240
aaactgtcta cggttcttaa cctcatctgt taagttccca tgcttgaga agctaattgc 300
aactcatcat gtgataattc aatttgtaca ataaattatg aacctgc 347

```

<210> 173

<211> 694

<212> DNA

<213> Homo sapiens

<400> 173

```

actctcctgt aaaacgctag agcggcgagt tgttacctgc gtcctctgac ctgagagcga 60
aggggaaagc ggcgagatga ctgaccgcta caccatccat agccagctgg agcacctgca 120
gtccaagtac atcggcacgg gccacgccga caccaccaag tgggagtggc tggatgaacca 180
acaccgcgac tcgtactgct cctacatggg ccacttcgac cttctcaact acttcgccat 240
tgcgagaaat gagagcaaag cgcgagtcgg ctcaacttg atggaaaaga tgcttcagcc 300
ttgtggaccg ccagccgaca agcccaggga gaactgagac tctgccttac caccgcagtg 360
cggggcacct ctcccagcgt ttctccggtt tgccaatcct cttaagtatt cctgtctcca 420
aaggaccggc tctccatggc tctgcgcct cgtgctttcc gcgtacagaa gtgcttgccc 480
ggggagtccc gcctgacctg ccttcatgtg gaccttaga acagcactgg gagaccagca 540
ggactcctga gaactgtgct ggtggagagg tcctagagcc ggcgagcgtt tgagaagagg 600
gcatggcgct ggagtggat gggatttggc gtctcgtttt tggctaattg attgtcattg 660
gctttttcca taaagtttag aaatcgtaaa aaac 694

```

<210> 174

<211> 771

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 31

<223> n = a,c,t, or g

<400> 174

```

attcttgcgc ctggcccagt cgctatgtag nggaggggca gacaccctcc cgcaaattct 60
ggaaggttct tagtctcgac tagggcagta gcccagggac tcctagtcgc cggcttcagg 120
tcactocccg ctgaacggag ctgccgtcgc cactgtttgg ctgcttgggtg gcggggaggc 180
tggtgcaaac agctgcacag caagtggcag aggataaatt tgtttttgac ttacctgatt 240
atgaaagtat caacctatgt gtggttttta tgctgggaac aatcccattt cctgagggaa 300
tgggaggatc tgtctacttt tcttatcctg attcaaattg aatgccagta tggcaactcc 360
taggattttg cacgaatggg aagccaagtg ccatcttcaa aatttcagggt cttaaattctg 420
gagaaggaag ccaacatcct tttggagcca tgaatattgt ccgaactcca tctgttgctc 480
agattggaat ttcagtggaa ttattagaca gtatggctca gcagactcct gtaggtaattg 540
ctgctgtatc ctcagttgac tcattcactc agttcacaca aaagatgttg gacaatttct 600
acaattttgc ttcattcattt gctgtctctc aggccagat gacaccaagc ccatctgaaa 660
tggttcattcc ggcaaatgtg gttctgaaat ggtatgaaaa ctttcaaaga cgactagcac 720
agaaccctct cttttggaag acataatttg aataaaataa tttttaatgg t 771

```

<210> 175

<211> 552

<212> DNA

<213> Homo sapiens

<400> 175

```

ggccacctcc tctccacat ctctgagag gccaggcac caccaccatg actccgactc 60
caactcccc tgctgtaaga ggaggaagcg gggacacagt ggggacagga ggagcccgtc 120
tcgcaggtgg catgacagag gctctgaggc ctgatggctg gacctgctc actgctgttg 180
tgggaccctg aaccctccct tcaccttgct tgcctcctgc ctcggaagct ccttgggtgt 240
gggtgaagcc cgaggctgct cctgtggaag tggctctggg caccagcctg tggggctaaa 300
gacttgacag ctagctctgg agcagccggc ttcttgaaa acctccagggt ttgcataacc 360
agggatggcc cctggcttgg cctgcgaagg tgaacctgcc cagatttctc agtagaggct 420
ggactccctc tgtgtcctgc ccatggttgc agcagccatg ggcctatgag cggcttaact 480
gtggccaagt atggtgacct ctatttttct ttatattgac tctttgtatt tcaataaata 540
tattttaaaa gc 552

```

<210> 176

<211> 401

<212> DNA

<213> Homo sapiens

<400> 176

```

gccggctaaa cgcgtgcggg ggaggtggct tcttcgggcc gggccgagag gtggttacat 60
tcgttgaagg acaccagctg cgggaatttgc ggctttggca gattgaaatc atggcaggctc 120
cagaaagtga tgcgcaatac cagttcactg gtattaaaaa atatttcaac tcttatactc 180
tcacaggtag aatgaactgt gtactggcca catatggaag cattgcattg attgtcttat 240
atttcaagtt aaggtccaaa aaaactccag ctgtgaaagc aacataaatg gatttttaac 300
tgtctacggg tcttaacctc atctgtttaag ttcccatgcc tggagaagct aatgccaact 360
catcatgtga taattcaatt tgtacaataa attatgaacc c 401

```

<210> 177

<211> 396

<212> DNA

<213> Homo sapiens

<400> 177

```

gtgttttgag ctggagacgg cctgggtgct ggcgaagcgg aggccggagt aagaagactg 60
ttagaatgcc ctcggttaaca cagaggctga gagatcctga cataaatcct tgtttgtcgg 120
aatctgatgc ttccaccaga tgtctggatg aaaataacta tgacagggaa aggtgttcca 180
cttacttctt gaggtacaaa aactgccgga gattctggaa ttctatcgtg atgcagagaa 240
gaaagaacgg agtgaagcca tttatgccta cggcagcaga aagagatgaa atcttgagag 300
cagtgggaaa tatgccctat tgaatgtttg cattaaaagt gtttatataa cttagaagca 360
gatgaatatt tctaaataat gattgctgta atattc 396

```

<210> 178

<211> 949

<212> DNA
<213> Homo sapiens

<400> 178
agttttccgag cggcaaggca gcgatggcga ttttttagtgt gtatgtggtg aacaaagctg 60
gcggccttgat ttaccagttg gacagctacg cgccacgggc tgaggctgag aaaactttca 120
gttatccgct ggatctgctg ctcaagctac acgatgagcg tgtgttggtt gctttcggcc 180
agcgggacgg catccgagtg ggtcatgcag tgctggccat caatggcatg gacgtgaatg 240
gcaggtacac ggccgacggg aaagagggtgc tggagtatct gggaaccctt gctaattacc 300
cgggtgccat tcgatttggc cggccccgcc tcacttctaa tgagaagctt atgctggcct 360
ccatgttcca ctgcctcttt gccatcggtc cccagctgtc tcctgaacag ggaagctcag 420
gcattgagat gctggagaca gacacattca aattgcaact ctaccagaca ctgacaggga 480
tcaagtttgt gttcttagca gatcctaggc aagctggaat agattctctt ctccgaaaga 540
tttatgagat ttactcagac tttgccctca agaattccatt ctattcctta gaaatgccta 600
tcaggtgtga gctctttgac cagaacctga agctagctct ggaggtggca gagaaggctg 660
gaacttttgg acctgggtca taggctgaac ctgttatgga cccccaaatt ctgagagtgc 720
ctgcaacaag aatactgctg ttgacactcc agtggaaatc ccagcagcct tgttagtgc 780
cttgaaagtg ggagaatgct gaccctgatg acttgactg attcctgagc ctttaactg 840
tgctctttcc ttctgtatat gccatggctt tactttccaa ctctgtacag atttatttat 900
ggaggagcta ggtccataaa tgttgtaata aatattcctt tgatcttgg 949

<210> 179
<211> 1067
<212> DNA
<213> Homo sapiens

<400> 179
gccatcagtg tgggctgtgc cgtggctgga agttactgtg aggcggcggc taagaaggcg 60
gctctggtgg cggcgggtgga ggctgaggcg cgggcccagg cggcgacgga ggaaacagaa 120
gatggcagat tttttgaaag gactgcctgt ctacaacaaa agcaatttta gtcgatttca 180
cgcggaactcc gtgtgcaaag cctcgaaccg acggccctca gtctacctgc ctaccgcgca 240
gtaccgctct gaacagatca tcgtgacaga aaagacaaac atcctcctgc gctacctgca 300
tcagcaatgg gacaaaaaga acgctgccaa gaagagagac caggagcaag tggagctgga 360
aggcgagagc tccgcacctc cccgcaagggt ggcgcgagcc gacagcccag acatgcacga 420
ggacacttaa gactctcaac tccacaggcg cctcctgcc a ggtctgctcc tcggctcgccc 480
accgcctgct ccgccatgtg taagcaccct gcccgcctgc ctccctgccc gcccatccac 540
accctgctgc cacaccactt ccaacctcat aggagccgat gtattttatt tccttgagtt 600
tttattttatg ctgtaacctg tatcaagcgt tgggttaaagg ggacatcaga cccagtagtg 660
tgatgttggg agatgctttt taaaaaaaac aacattgtcc ccccgacccc cgccttccat 720
cgggccagtt ccccgattcc tgcctccagt tctccagaga accagagtgt gtctgtgaga 780
gtctctagcg ggggctttac tgtggccggg cgacaggggc gggcccgggg tggcctgacc 840
taccaggaca gccgagtggc cttctcccc ccaacaccga tccaggccat tgagactcgg 900
tcttgctcca ccttcgcccc gaactttccc atgcccagac ctcaactcagc gtgcacgcac 960
gttggggaga agtcggccct tgggatcttt ctcttgagtc atttttattt tatcatggac 1020
tagtgcgctgc tccgtgtcca ccccaataaa agggctcttc ctactcg 1067

<210> 180
<211> 675
<212> DNA
<213> Homo sapiens

<400> 180
ggcacagcca ggggcctgcc gccgagacgg ctactggttc ctaaagctac tgcaggcaga 60
aacagagcgg ctggaaggct ggtgctgcc gatggacaag gagaccaag agaacaacct 120
ctctgaagaa gtcttaggaa aagtcctcag tgctgtggc agtgcccagc tactgatgtc 180
ccagaaattc cagcagttcc ggggcctctg tgagcaaaac ttgaacctg atgccaacct 240
acgccccaca gcccaggacc tggcagggtt ctgggacctg ctacagctgt ccatcgagga 300
tatcagcatg aagttcgatg aactctacca cctcaaggcc aacagctggc agctggtgga 360
gacccccgag aagaggaagg aagagaagaa accaccccct ccggtcccaa agaagccagc 420
caaatccaag ccggcagtg gcccgcgaca ggccctcagac gccagcgaca agcagcgcca 480
ggaggccccg aagagactcc tggcggccaa gcgggcagct tctgtgcggc agaactcagc 540

```

caccgagagc gcagacagca tcgagattta tgtcccggag gccagacca ggctctgaga 600
ccatgcagga ggaaagaaac gatttttaaat cattaaaaac acaaaaacta agtgcgaacg 660
gaacagagtt ttcac 675

```

```

<210> 181
<211> 581
<212> DNA
<213> Homo sapiens

```

```

<400> 181
acttccggcc agatcgccgg atttccgctg agtgaccctt acaagtcctt cttgatcctg 60
aactgggtta ggtgccgctg ttgctgctcg tgttgaatct agaaccgtag ccagacatgg 120
gactggagga cgagcaaaag atgcttaccg aatccggaga tcctgaggag gaggaagagg 180
aagaggagga attagtggat cccctaacia cagtgcgaga gcaatgcgag cagttggaga 240
aatgtgtaaa ggcccgggag cggctagagc tctgtgatga gcgtgtatcc tctcgatcac 300
atacagaaga ggattgcacg gaggagctct ttgacttctt gcatgcgagg gaccattgag 360
tggtccacaa actctttaac aacttgaaat aaatgtgtgg acttaattca ccccagtcctt 420
catcatctgg gcatcagaat atttccttat ggttttggat gtaccatttg tttcttattt 480
gtgtaactgt aagttcacat gaacctcatg ggtttggtt aggctggtag cttctatgta 540
attcgcaatg attccatcta aataaaagt ctatgatctg c 581

```

```

<210> 182
<211> 931
<212> DNA
<213> Homo sapiens

```

```

<400> 182
gggatctgga gcagcagctg caggatgagc tcctggaggt ggtctcagag ctccagacgg 60
ccaagaagac gtaccaggca tatcacatgg agagcgtgaa tgccgaggcc aagctccggg 120
aggccgagcg gcaggaggag aagcgggcag gtccgcacag tcgaagccac acctggctctg 180
ttttctgtgc actgtagcct tagtgtcacc tttcttcttg tgtctcctta tggtagactc 240
cagcggttgc cttttttatc atttctactg aagttgggaa attcaacccc agaaattgac 300
agatgaaagg agacaatggt tgtgtaggga gatggagaaa atgcttaatc tgaggatgag 360
acagggtttt ttcatttttg tgggggctag aaaaaacata aaatgaggca gttaaataat 420
aatagttaat gaaggtgtgc tacagaaaat aatctggtgt tcttgctaac tttgcccttc 480
actgttgctt aattgtgaac agccaaaagc tatatgttat ggcttattgt gtgaaggtaa 540
ctaagaagtg gtgttccatg acttcagagt acatccatgc ggagtccatt atttgagttt 600
gacatttaat aactttgctg gaaaatctgt aaaaaagaaa aacaagtttg ctagtgacta 660
agccccgcat atgtgagtga aagtacttca ggcacgctgc ctcttggtta cagctatgca 720
gggaggaggg acccactctg ctacacttct gatccctttt ggttttacta cccaaatcta 780
aatagatact tttgataata gataactgct cttttactaa gacatagtct ctacctatag 840
aaatgtattt tgaaaacact tattttacac agcaattttg tatccattta aactaacctt 900
ttatcaataa agcactattg tttagatatt c 931

```

```

<210> 183
<211> 1016
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 976,980
<223> n = a,c,t, or g

```

```

<400> 183
agcagctgaa gactctccac ctataactgt atcgtgccac attcagattt ttagaatgcc 60
cctcttgatc tggccatata tacattaaat gctattttct tcaagcagtg agacaaagct 120
gagagacgat aggttttaaag attgggtaca aattctgatg aagactggtc cttgaagtct 180
ttgggctgtt acatggccct ttggaagcaa taggtcatca ctgtgaacaa cttctgtagg 240
tactggtttc catacgaagg gaatacatct tgatgacttt acatgaagtc ttaactttat 300
ttgctgttta atgtaagttg gtcaagggtc ttattgagca gaagaaactt gggaaatgaa 360

```

```

agcactgtta ctgggaccac agttttttgag cctctgctgt caatggaaac agacacttca 420
aaaaatgctct ccacggagggc tcagaagaga tgaaaagaca ggaaaaggag ctgaaaagat 480
gaaaaaaaaa aaaaaaaaaa aaaaaggaaa atcaaggcct tctacaaaac aaaaactttg 540
gacagcatct tgattcctcc tccacctctt ccatattagc cttgagactc tttctgaaaa 600
taaaaaaggag ggagttcttc cttgtcataa ttatcccatc cttagtgtaa tcactatcca 660
aaattagtct ggaaccttct aaatcaattc catagtctct gggcaatatt ttgagaaatt 720
cgcttaaatgt gacttgacag aatctctggg ctggatggta ttagagcgat tacagtagta 780
ccaacttcag gccaaagcccc aaagtgtaaa aatcgtgttt ctgggctaca ttctgttatg 840
ccagagttta tatagtgtct ggtaacatgt aagccttttt gaaatgaagt ctccataggaa 900
gattgaaaac atcagcaatc ccttgatacc accagcaatc catctaccac ctgtacattt 960
tcactacccc aatatnrgan ctccttaaga gaaaggaatt tggttccctg tcacac 1016

```

<210> 184

<211> 413

<212> DNA

<213> Homo sapiens

<400> 184

```

gtttcatctt ctgggattat tgttcaagac cagcctctaa tgggaggtga aacggtacga 60
tggtctcaac acctttcttc tgaactgtaa tacatatcac aaaaagtaca tccataattc 120
agggaatttg tcagtctttt tagagaaggg gccagggtgg aacaatccca gtgagtaaat 180
tatttctcag cgtggacttc tctgcatgtc gggcttaagg tcaccagccg ggcagggtgg 240
aaggagcttg cctctttgag aaaccaagga gtcccagtga tctgttacca tttgggttatg 300
acttctaaag agccaaatgc tattccttca agcctgtttt gcaggcagaa aataccagca 360
gtgtcattta ggggttcctt tgatgatgac tactgctgtt aactgacctc agc 413

```

<210> 185

<211> 961

<212> DNA

<213> Homo sapiens

<400> 185

```

ttgatttata aatagttgtc agttcacata gcaatttaat caagtaatca ttaattagtt 60
accccctata tataaatata tgtaatcaat ttcttcaaat agcttgctta catgataatc 120
aattagccaa ccatgagtca tttagaatag tgataaatag aatacacaga atagtgtatga 180
aattcaattt aaaaaatcac gttagcctcc aaaccattta attcaaata acccatcaac 240
tggtatgccaa ctctggcgaa tgtaggacct ctgagtggct gtataattgt taattcaaat 300
gaaattcatt taaacagttg acaaactgtc attcaacaat tagctccagg aaataacagt 360
tatttcatca taaaacagtc ccttcaaaca cacaattgtt ctgctgaaga gttgtcatca 420
acaatccaat gctcacctat tcagttgtct tgtggtcagt gtggctgcat agcagtggat 480
tccatgaaag gagtcatttt agtgatgagc tgccagtcca ttcccaggcc aggctgtcgc 540
tggccatcca ttcagtcgat tcagtcatag gcgaatctgt tctgcccagag gcttgtggtc 600
aagcaaaaaat tcagccctga aatcaggcac atctgttctg tggactaaac ccacagggtta 660
gttcagtcaa agcaggcaac ccccttgttg gcactgacct tgccactggg gtcatggcgg 720
ttgtggcagc tggggagggt tggccccaac agccctcctg tgccctgctc octgtgtgtc 780
ggggctcctc agggagctga cccagaggtg gagggcacgg aggcagggtc tctggggact 840
gtcggggggg acagagggag aaggctctgc aagagctccc tggcaatacc cccttgtgta 900
attgctttgt gtgcgacagg gaggaagttt caataaagca gcaacaagct tcaaaaaaaaa 960
g 961

```

<210> 186

<211> 712

<212> DNA

<213> Homo sapiens

<400> 186

```

tgccaacatg gtgttcaggc gcttcgtgga ggttggccgg gtggcctatg tctcctttgg 60
acctcatgcc ggaaaattgg tcgcgattgt agatgttatt gatcagaaca gggctttggg 120
cgatggacct tgcactcaag tgaggagaca ggccatgcct ttcaagtga tgcagctcac 180
tgatttcata ctcaagtttc cgcacagtgc ccaccagaag tatgtccgac aagcctggca 240
gaaggcagac atcaatacaa aatgggcagc cacacgatgg gccaaagaaga ttgaagccag 300

```



```

agaaaggaaa gccaatgatga cagattttga tcgttttaaa gttatgaagg caaagaaaat 360
gaggaacaga ataatacaaga atgaagttaa gaagcttcaa aaggcagctc tcctgaaagc 420
ttctcccaaa aaagcacctg gtactaaggg tactgtgtgt gctgtgtgtg ctgtgtgtgc 480
tgctgtgtgt gctgtgtgta aagttccagc aaaaaagatc accgccgcga gtaaaaaggc 540
tccagccagc aaggttcctg cccagaaaagc cacaggccag aaagcagcgc ctgctccaaa 600
agctcagaag ggtcaaaaag ctccagccca gaaagcacct gctccaaagg catctggcaa 660
gaaagcataa gtggcaatca taaaaagtaa taaaggttct ttttgacctg tc 712

```

<210> 187

<211> 391

<212> DNA

<213> Homo sapiens

<400> 187

```

ggaacacctt gcgccatgag agccaagtgg aggaagaagc gaatgcgcag gctgaagcgc 60
aaaagaagaa agatgaggca gaggtccaag taaaccgcta gcttggttga ccgtggaggc 120
cacaggagca gaaacatgga atgccagacg ctggggatgc tgggtacaagt tgtgggactg 180
catgtactgt tctagagctt gtctcaatgg atctagaact tcatcgccct ctgatcgccg 240
atcacctctg agaccacact tgctcataaa caaaatgccc atgttggtcc tctgccctgg 300
acctgtgaca ttctggacta tttctgtgtt tatttgtggc cgagtgtaac aaccatataa 360
taaatacact cttccgctgt tttagctgaa g 391

```

<210> 188

<211> 717

<212> DNA

<213> Homo sapiens

<400> 188

```

aacattttcc cccactcctt cccttgatct ttttggtttt actttaatta agccctgcga 60
gaatgctgga taaatgcctt gaagttagca ggtgttattt ttttagcgaa tatgatttgc 120
atgtcttgcc aggagttaaag cggcctctgg ggtgttgggg aaatacttta tttctttcca 180
tttatttttt gtggggcggg gataggggag ggcattgaag ttctacaatt ctggaatagt 240
tagttgatgg tacatagtta acttggtctt gggtacatat tggactttaa caactgaaga 300
atctatgcgt gtcatttaaa gaaaagtgtc agaacaagca attggcttag atatacaatc 360
tggaataata ttctgtgtcc catattttta tgtaattgta taactgggag caaaaatata 420
ttctgttttt caactgtagg tgctccagac ttgctctccg tcactaacac taaatgtgct 480
gttttccttg tttttcatca aacatttaag acaaacttag acctttctgt aaattatctt 540
ttaatttctc agcaaaatct aaaaggggaa gaaaaaagtc catgaaaact aaaacttttc 600
atgttttttag ccagtggaaa gataataaac cctgactgta gaaggtgtgt tttcatgcaa 660
actatacttc tgagcttggt aacttctaata tataatctta taaatatatt ttattac 717

```

<210> 189

<211> 288

<212> DNA

<213> Homo sapiens

<400> 189

```

gcccgtcatg ctgtccgtac actacgtatg ctgtagagcc attttgtatg ttgtgtaaaa 60
caaaaagcat tgatgaaaaa gcaaaagggt atgtatgtat atgagaaaat taattgtacg 120
atatcattcc agtacgtttt gttgtacatt ttagtcttgt ttactttctc ttcattgtta 180
agaggatgcg aactgtacag tttccagcta gttaccata ttagagaaga aataagagag 240
tattagaaga aaacaggaga gaaagaacat ttgtgaattg cagttgtc 288

```

<210> 190

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 190

```

gagagatatg tcaagtcttg tttacagaaa aagcaaagga aaccgttctc aagcgggaag 60
aaacaggcag ccaagtgcga agaggagcta gctcaggaaa agaagaagga gctggaaaaa 120

```

```

cgtctgcagg atgtcagcgg gcagctgagc agcagcaaga agcccgcccg gaaagagaag 180
cccggctcag caccctcagg gggcccgtcc aggtcagca gcagcagctc ctccgagtct 240
gggagcagca gctccagcgg gtccagctct gacagcagtg actcagaatg aactggcttc 300
ggacagaaca ggacagatgg atgtcgcaca cgccgagact ctgccgtacc cctctgtggt 360
tcataattact acttctgttc catggtgtgc aggtctgcct cctaattcag tgttatgata 420
tcttccagtt tttgctttca taggtcagag atctatcttg tgtgtggcgt tagacttgat 480
gagaagggtgt gaactctgca gaaagtctct tcttcatcac tgaattcagt cacttggaga 540
tgacaacttc aaatgctaac ccgatgaccc cagaaaacag tgtgagattc gtaccgaaga 600
accttgtgga atccctttgc ttaggcccaa cctggtcgat agctcgagaa agaatttttt 660
ccaaggaaat gtctcggata tgggtactgt atttgaaagc tgttagcttt gtcaacacgc 720
attgtccttg tcatttgggc cccgagctct gaccctcgtg tctgacgcgg ccacctcttt 780
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gggtcatcgca gccccagccc ggagcgtgga gcccttgggg ggtggtcggg tgggatgtgc 900
gttctccgct cgtggtgatg tcaggagctc ctcgagggga acagagcggc tgtgtatgca 960
gcctgcagggt ttccatacac tgaagctttt acctcaactt t 1001

```

<210> 191

<211> 1644

<212> DNA

<213> Homo sapiens

<400> 191

```

ctttgaagga aaaatgaccc actatggctc tcaaagtttt tatgcatcat ctcttcaatc 60
ctctaagaaa gcctcttttc ttaacttgat aaagcagtg aaacccattt tgcaatattg 120
ttttgtgaaa aacagggaca gacagccagg tacagagact cacacctgta ctcccaacta 180
ctcagcagggc tggggcagga ggattgcttg agcccaggag tctgaggcta cagtgaagta 240
tgaacgcaca cggcacccta gcctgggcaa caggttgcca aactgtctca agagaaaaga 300
aaaagaaaaa tagggatagg ttttccttcc tagcccagta gattttgacc tcattagtat 360
ggtgctttgg gtgaggacct ctctcttgat tatccactt tctagtgaac agctaaaatt 420
cctgagagtc tctactgtta aggtaccttt aataggataa agcagggacc acctatctca 480
gtgggtccat ttttctttta aaattagtta tctgaaaaaa cttagcagta gttcccatct 540
ttaaggttaag tctttcattt ggtccccatt gtgtaaaata ctaatcaaca ttttcaagct 600
tctgtacaac agactgcttt tgtctagatt tctcaactcc actttataaa gcttatcagt 660
tttcagagag gaatgtgaat tttttttcta atgcaaataa atggatatgg caggaaactac 720
agcataagtg attattgtga ttctgggtgg acggatataa tttacaacat ttagggatgt 780
tctaggttagc ctgctgtagt ttgacttcca gtcactgttg tctttcacat tataatttgt 840
atatctcttg tgatagaagg gatgatgcaa atatgttaatt aaagtgtcac cagatttctg 900
ttaaaaccaa ggttgaaata aaaagcctaa catttgtaag ctacattgtt ttctcatttt 960
agaatgattc agagatttca gatagacatt ttttaaaact taatgcttag ctagaatcta 1020
cattctgagg aaaactctaa aaaacttaaa aatttttagg gaatttttat ttttcaaact 1080
ataattttta aatgatagat accattttgt gataacaaca attcagaaaa caatttttcta 1140
tctctttagt tgaaagaatg taggtacagt ttggatactt gtactttaat tttagagtaa 1200
acatctgcat tatactctta tagataatag aattatttag ttaagaaatt ctttacagta 1260
aatgagataa tgtgtgaaaa agtattttgt aaatgctgag gattctacaa atgatagttg 1320
ttattttcat gtgtatttgt aagatcatgt ccatttcatg aatataggac ttcacataaa 1380
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tatttacttt tattttgtta tacatttatt ttaatatcca tgtgtttatt atagtaaatt 1500
tgaaatgaaa tcctgaaaaa cagaattttt ttaaacacag acctcacacc aatattaatt 1560
ttttctctac ataatttaaa actacataaa ttaagtactt aaaattttata ttgaaggcca 1620
ccaagaactt aggttgaatc ttag 1644

```

<210> 192

<211> 2231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1680

<223> n = a,c,t, or g

<400> 192

```

ttctaaacat gcaactgtctt atttttattcc cactataaca ctgcgaaata agcactgacc 60
ctacttgacg ttcgagaaaag ctgtgggttca aagaagtga tccacctatc caggggtaca 120
gaaggtagta aggagcagag ctgagatttt aaacctgcat tcttttagagt agccccgttg 180
tctccaggag gaagagcagc aaagcccaga aaatgcagct ccacgtttgc ctgttggtct 240
gctcttttcc tctctatttc acagtcattg acaagcttct cgatgccaga ctgagggtggc 300
ctctccgggg acctggagtg gtcgctgttg ctctgtttt gaatgaggac tcaggctcag 360
ggaggatctg taactttccc aggccatgtt gctagcaggt ggcagagccc atctgactcc 420
ttcacaccct ggatcacccc tgccctccctc tctgggcttg tgtctcaatc ctccctccctc 480
agggagcagg agcaggatct gtggccaggg agcacatggc ggatctgtcc caagccagac 540
cgccgacctc aatttgccctt ttagagcctt accccattcc agagataggg cgtctccgag 600
aggacacatt ggagacatc tggggctctg aaatggccgt ggttctgtcc tgggactcag 660
gcaggaaatg cagaggggca cttggggcag attcccatag gtggccccag gaggacagg 720
atttaactga ggacacagca gctctcgatt ccggttctag tatccttggg tgaagacagc 780
tgagggccaa cggctttttt cctccaaaat agaattgtca gggcaccaca tgctgacctt 840
gctcctagct tcccctcatt tgccgaaatg cagagagaag ttgccgggccc cccgtgggtc 900
tgtgctgagc tgccctgtcg tcccactgcc acgggagcag catctaggcc tgggaaaagt 960
ggggacagag tgggcgccaa agtgttctag acacactggg atctgaggag caggccctgga 1020
cacagctcac atgcgcaaac cgtgcacacg tggcccggtt ctgttccttc acgcaagcag 1080
tgtccccagc acccgcaaaa ggtgacgccc agatggatcc cagagcggtc ctgacggtcc 1140
ccctccggc tgcctgcctt tctctgtatg tcgctgttga cagagggtta tgtaacctcg 1200
aaggaaggga ggccgtggag tctcccaaaa gcggcgagtg aatcagtttt tgctgccgtc 1260
attttctcag caggaatctg ctttatgcag attggattta ggggtttttc ctggatgctt 1320
ctgtttcatt taacatgcaa gggctaataa cttgtcacia ttcaataagg cgggtggttac 1380
aaacaccgga gcggctgctt atttaaattgc aggtttgtta attagcttct cctaacaagg 1440
cgtgcgctaa atcaggctcc cggctcgag caccacaaggc tggcacatct cccgggacgg 1500
gaggtcggga ggttggtac aggtcacat ccagtcactg gcagcagggc cagaattcaa 1560
ggctaggagg cctgtctcag ctactccatt gcctcagttt ccttc=aatc aaggcatcaa 1620
tgacaaattg taaaagcaac tgcaagataa ccacactctg tcccttccct tccttccttn 1680
tctggttctc ttcttgcct ttgattcctg accccatccc ccactccgag tgtgctgtgt 1740
gttctacgca agccccacct cttccatgaa accttcatag cttccttcaa ccctgacacc 1800
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cagggacaga agaaaaccaa caaagatggg gcacctgctg tgggccaggg gctgtctcca 1920
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gagggccaga gaggttgcat gaccttccca aggtcaatga gagccactct ggggttcaac 2040
ctcctgctat aactccaaag ccagtgatct cttccctccc tgggtggcag gaagtgcttg 2100
aaaacagcat gtgtcgcca gaccagcgtg gtggcccact cctgcaattc cagcactttg 2160
ggaagccaag gcggggagat cacttgagct caggaccagc ctgagtaacg tgacaaaact 2220
ccatctctac c

```

<210> 193

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1114,1119

<223> n = a,c,t, or g

<400> 193

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catccatgta agatatgact tgctcctcct tgccctctgc catgattgtg agtcttctcc 60
agttatgtgg aacgctgtta ctgcccttag acttgaaggg acaaggagaa ggagaagatg 120
caggaagaaa aggaagttct ctgtaacagt agcagcagag ccagcccaaa ataacttcaa 180
ggagatggag tctgggagtc aacatgcttg cctcactctc tttcagccct ctgattccct 240
gccagggatt ccccatgggt caaagccaat gggatgcctc cttctgaagc cacaggagcc 300
tgctgataga gttcagagag gacatcctcc ccaggcagag aacagcgtag aaaagtgaag 360
aatggatcag ttggagcaag tctgaagtat ctggcacagg aaaaaacagg gtajagaata 420
cggcacacag gaaagtgtac ccgaagaag ctttgcacat cctctccttg accagatata 480
gctgtgtgac cttgggcccga tcacaccact tctctgattt acagattttt tttcatctgg 540
cagctgctca agttcctaaa gaatatatat gaatgatact tcgagcacct tgtttcccag 600

```

```

gaatgaagag ccaggaaaag cctcgagtgc tgtgattgga aatgagctag ccaaaggcag 660
attcaccatt aaaatgtgaa tccgttattc cacaaggaaa gaaaacaaca ccatgtacgc 720
tagtggttaag tagaaatgcc atcacatttg gggcatgaaa accggaggca atactcgcag 780
tgaaacaaac tgtcaactat ggctggaaaa tccaagtgc ctttcaaata aggaatcggt 840
acctacccag gtggacagta attttgagt gttcttagtc tctgcctcag gtgagatttc 900
tggcagcaga cacagcatca catgtcttgt ttcttttatt ccaaaaattc tcccttcaca 960
atgatgaaaa gttgaaagaa ttgggttttt ttaaaagaca aaaggcctat actccataca 1020
agctttgtaa ctgctgaatc ctgtggcctg ggatgcggga cttaacctct gagcttcagt 1080
cttctcaact acaaaatggg gataataaca gccnctttnt tgtgttactg aaacaataaa 1140
atggaaaaatg ttcac 1155

```

<210> 194

<211> 1528

<212> DNA

<213> Homo sapiens

<400> 194

```

tgaaaaagtg gttcttttga aaggagatgt ggcattactg aactgtacag ccattgtgaa 60
taccagcaat gaaagtctca cagataagaa tcctgtgtca gaaagtatct tcatgcttgc 120
agggcctgat ttgaaggaag atctccagaa acttaaaggg tgccgaacag gtgaagcaaa 180
attgacaaaa ggattcaatc tagctgcccg gttcatcatt cacacagtgg gacctaaata 240
taaaagccgc tatcgcacag cagctgagag ttccctttat agctgctaca gaaacgtact 300
tcaactagca aaagagcagt caatgtcttc tgttggttcc tgtgtcatca attctgcaaa 360
acgtgggttat ctttagagg atgcaacaca catagcactt cgcactgtaa gaagattcct 420
agagattcat ggggaaacca ttgaaaaagt agtatttgct gtctctgac ttgaagaggg 480
tacttaccaa aagctgctac ctctctactt cccaaggcca ttaaaagagg agaatcgatc 540
attgccctac ctacctgcag atattggaaa tgcagaaggg gagcctgtgg tacctgaacg 600
acagattaga ataagtgaga aacctgggtgc tccagaagat aaccaagaag aggaggatga 660
aggcttggga gttgatctct ctttcatttg ctctcatgct tttgctcgaa tggaaggaga 720
tattgacaag caaagaaaac tgatccttca gggacaatta tcagaggcag ctctgcagaa 780
gcagcatcaa agaaattata atcgctggtt atgtcaagca agatctgagg atctgtctga 840
tattgcttct ctaaaagcct tataccaaac aggtgttgat aactgtgggc gaacagtgat 900
ggtggtagtt ggaagaaaca ttctgtaac ataatagat atggacaagg ctctcttata 960
tttcattcat gtaatggatc acattgctgt gaaggagat gtattagtgt attttcacac 1020
cctgaccagc gaatacaatc acctggactc cgacttctct aagaaactct acgatgttgt 1080
tgatgtcaag tacaagagga atttgaaggc tgtttatatt gtacatccca catttcgttc 1140
aaaggtgtca acatggtttt ttaccacctt ttctgtctca ggactgaagg acaaaatcca 1200
ccatgtggac agcctccacc agctgttttc tgccatatca ccagaacaga ttgactttcc 1260
tccttttgtc cttgaatatg atgccaggga aaacgggcct tactatacat catatcccc 1320
atcaccagat ttgtgacctg ccattcttca gtgcttcttg gttcccagga tgccacttcc 1380
tccacgaata gctacctgtt gaagtgatat tcattgttgc tgtacagatc cagagagcct 1440
tttgtcccca cctctctggt atttttttat tgactgtata ttttctggca cataagcaat 1500
ctaaaaatgg taggccattc tgaactgc 1528

```

<210> 195

<211> 624

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 478

<223> n = a,c,t, or g

<400> 195

```

ttttaatttt agtttcatga gtctttatatt tttgttacct gcaagttatg ttcttcttca 60
ttgaatttca tatttgagag acatttgtct tcatgaagca gatttgcact ggaaccattg 120
ctttactctg gctggaaatg ccattgtttt ggggacagac ttttaaaatg cccttgtgtc 180
tcccagtgaag gagccctaag cattgacttc tctaccctaa aactgtttga gagagggaga 240
gtggggccctg gctttctcaa gcatgggtcg ggggttcagc ggggcctctg tcttttgttg 300
tgacccctca ggggtttcat tgtttccttc tgacttaagc aatagagaga gaatttgttt 360

```

```

tggtactctt cagaggaatt gtgctttggc tcataacttg gccatgttct ccatgaaaaa 420
attctcctat tttttttttt ttaactacct taaacttaag ggaaaagttc tcctatcntg 480
atttcactgg aatataaggct ttaggagctc tgtaaggctg gtatttttgt ctgttttatc 540
ttctttctgta tcgccagtgc ctggaacagt gtctggtgca cataataggt gctcaataaa 600
aatgtgttca atggatgaat ttcg                                     624

```

<210> 196
 <211> 417
 <212> DNA
 <213> Homo sapiens

```

<400> 196
cctgagccag cggggcctgg cctacctccc ccatcccttg cttcccttgg aggcagaggg 60
ctcccttgac tacctttgtt cctcttcttt gaacactgac ctttggacaa catttatcat 120
aatttgtcat aaccactgct gagtggcctt gaggacgaac cccgcaggga gcaagcagta 180
cagtggcatt cccaggggga ccagcagcta cccaaggaga accatgcatg aacagtatca 240
gtcgtctggg ctcatgctgg gatgtcgag tgctcctgtt gcaactcctc ccagccagcc 300
aggtttgctg ggggccaggc tgggtgtcct cacaggagtg agggctacac ccaattccaa 360
aagcctgaga agagagaagt ggagggggag gcgagtgtgt gaataaaggc tccaac 417

```

<210> 197
 <211> 328
 <212> DNA
 <213> Homo sapiens

```

<400> 197
ttgggatcat ggaattggcc gttgggctta cctcctgctt cgtgaccttc ctctgcccag 60
cgggctggat cctgtcacac ctggagacct acaggaggcc agagtgaagg ggtccgttct 120
gtccctcaca ctgtgacctg accagcccca ccggcccatc ctggtcattg tactgcattt 180
gtggccggcc tcccctggat catgtcattc aattccagtc acctcttctg caatcatgac 240
ctcttgatgt ctccatggtg acctccttgg gggtcactga ccttgcttgg tggggtcccc 300
cttghtaaca taaaatctat ttaaaactc                                     328

```

<210> 198
 <211> 337
 <212> DNA
 <213> Homo sapiens

```

<400> 198
tttttttttt gaaaatggat tcaattttta ttaaataatg taaaggattt tcttggcact 60
attcacattc tcttgccctga gtaaaacaag ccgcgtttat ctgcattggt agcagagggg 120
aagctactgg agcaaagcgt aagtgaatgg gttcccgtgc cgagggtgtc ctcatcttctg 180
ggctctgtca ggctccccct tgtctgcagg actggacagg ccacctccc caggccctgc 240
ccttgccgag agcgtgtcct tccatacaga caacagcctt gctgggtcac ctggaggagc 300
tgcgctcttt gctgacacag tcgtcctggg aggtgaa                                     337

```

<210> 199
 <211> 573
 <212> DNA
 <213> Homo sapiens

```

<400> 199
gaatagttac ggtcggaggc cgatccaggt catgatgatg ggcagcgccc gagtggcgga 60
gctgctgctg ctccacggcg cggagcccaa ctgcgcgcgac cccgccactc tcaccgacc 120
cgtgcacgac gctgcccggg agggcttctt ggacacgctg gtgggtgctg accgggcccgg 180
ggcgcggtcg gacgtgcgag atgcctgggg ccgtctgccc gtggacctgg ctgaggagct 240
gggccaatgc gatgtcgac ggtacctgcg cgcggctgcg gggggcacca gaggcagtaa 300
ccatgcccgc atagctgccc cgggaaggctc ctacagacac cccgattgaa agaaccagag 360
aggctctgag aaacctccgg aaacttagat catcagtcac cgaaggctcc acagggccac 420
aactgcccc gccacaacc accccgcttt cgtagttttt atttagaaaa tagagctttt 480
aaaaatgtcc tgccctttta cgtagatata tgccctcccc cactaccgta aatgtccatt 540

```

tatatcatTT tttatatatt cttataaaaa tgt

573

<210> 200

<211> 1701

<212> DNA

<213> Homo sapiens

<400> 200

```

gaaggaaaaag agcctggaga ccttaaattc agcaaagggtg acatcatcat tttgcgaaga 60
caagtggatg aaaattggta ccatggggaa gtcaatggaa tccatggctt tttccccacc 120
aactttgtgc agattattaa accgttacct cagccccac ctcagtgc aaagcatttat 180
gactttgaag tgaagacaa ggaagcagac aaagattgcc ttccatttgc aaaggatgat 240
gttctgactg tgatccgaag agtggatgaa aactgggctg aaggaatgct ggcagacaaa 300
ataggaatat ttccaatttc atatgttgag tttaactcgg ctgctaagca gctgatagaa 360
tgggataagc ctctgtgccc aggagttgat gctggagaat gttcctcggc agcagcccag 420
agcagcactg ccccaaagca ctccgacacc aagaagaaca ccaaaaagcg gcactccttc 480
acttccctca ctatggccaa caagtccctc caggcatccc agaaccgcca ctccatggag 540
atcagcccc ctgtctcat cagctccagc aacccccactg ctgctgcacg gatcagcgag 600
ctgtctgggc tctctgcag tgccttctc caggttcata taagtaccac cgggttaatt 660
gtgaccccg ccccaagcag cccagtgaca actggcccct cgtttacttt cccatcagat 720
gttccctacc aagctgccct tggaactttg aatcctcctc ttccaccacc cctctcctg 780
gctgccactg tcttgccctc cacaccacca ggccgccaccg ccgctgctgc tgctgctgga 840
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cgccccagtg tgtatgttgc tatatatcca tacactcctc ggaaagagga tgaactagag 960
ctgagaaaaag gggagatgtt tttagtgtt gagcgtgccc aggatggctg gttcaaaggg 1020
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agggcggtga caaatgcttc ccaagctaaa gtccctatgt ctacagctgg ccagacaagt 1140
cggggagtga ccatggtcag tcttccacg gcaggagggc ctgcccagaa gctccagga 1200
aatggcgtgg ctgggagtc cagtgttgtc cccgcagctg tggtatcagc agctcacatc 1260
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acacccatcc aggtacagaa tgccgccggc ctacagccctg catctgtggg cctgtcccat 1440
cactcgctgg cctcccaca acctgcccct ctgatgccag gctcagccac gcacactgct 1500
gccatcagta tcagtcgagc cagtgcctct ctggcctgtg cagcagctgc tccactgact 1560
tccccaaagc tcaccagtgc ttctctggag gctgagccca gtggccggat agtgaccgtt 1620
ctccttgac tccccacatc tcttgacagt gtttcatcag cttgtgggaa cagttcagca 1680
accaaaccag acaaggatag c

```

<210> 201

<211> 1169

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 149,337,341,694,791,845,907,1103,
1115,1128,1141,1145

<223> n = a,c,t, or g

<400> 201

```

aaccaacca aaccagtga gttttttaga acctttagaa ggggtggtctt tattcaggtt 60
ttactgtaat ggtaaggatt gactcaagag acagtattag taaatttatt gtgtatggat 120
caaaagtga taatgtatga atgagagcng taagaaggat ttttattttg ttataattta 180
gttaccattt tcagtgttat ttcaaagggt ctttgaagaa ttttggggca gggcatcaga 240
ttagagtttt aaaatttgag tttttggat atcagtgttc ctcatgaaga tatacatgga 300
tattcaattt tgatggcttc cagatttgta agattgnatg ntgtatatac cattctatta 360
agaaacatgt cactgtgct ttcaaacata gataaagcat gataaagatt attattttaag 420
atatacttgt atttatacct cagatattct tttgggtttt gtaccgcaag gcttttttct 480
tcttattgta aatacacttt acgtgaatac agtctaagtu aagaaaataa ataaaaggaa 540
gaggtttata acttgctcta tatctgtaca gattataatc aataagtga ctattattaa 600
atgttttaaag taagggaata gtctgggctg ctttccttaa tattgcatct cactcccacc 660

```

cttaaaacca	cagattgcaa	agcatagcat	tttngcatca	actacaatca	aaagagcgat	720
ttgctgaagg	aaaaatcgga	ctgcaaata	ttccaaggcc	aaactgcaac	tgagccaccc	780
actcccaaac	nggaaaccct	ggtgaagggt	caggaagcac	ggagattctc	tccaacaaag	840
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<210> 202

<211> 1975

<212> DNA

<213> Homo sapiens

<400> 202

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<210> 203

<211> 440

<212> DNA

<213> Homo sapiens

<400> 203

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<210> 204
 <211> 981
 <212> DNA
 <213> Homo sapiens

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<400> 204
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<210> 205
 <211> 1615
 <212> DNA
 <213> Homo sapiens

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<400> 205
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<210> 206
 <211> 648
 <212> DNA
 <213> Homo sapiens

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<210> 207
 <211> 610
 <212> DNA
 <213> Homo sapiens

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 <211> 2454
 <212> DNA
 <213> Homo sapiens

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<210> 209

<211> 1967

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1949

<223> n = a,c,t, or g

<400> 209

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<210> 210

<211> 1682

<212> DNA

<213> Homo sapiens

<400> 210

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<210> 211

<211> 1096

<212> DNA

<213> Homo sapiens

<400> 211

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 <212> DNA
 <213> Homo sapiens

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<211> 1373

<212> DNA

<213> Homo sapiens

<400> 220

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<210> 221

<211> 982

<212> DNA

<213> Homo sapiens

<400> 221

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 <211> 1963
 <212> DNA
 <213> Homo sapiens

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 <222> 1963
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 <211> 1627
 <212> DNA
 <213> Homo sapiens

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<210> 224

<211> 1868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 659

<223> n = a,c,t, or g

<400> 224

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<210> 225

<211> 2980

<212> DNA

<213> Homo sapiens

<400> 225

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<211> 1013
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 <213> Homo sapiens

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 <213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 234

<211> 2748

<212> DNA

<213> Homo sapiens

<400> 234

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<210> 235

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 235

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<210> 236

<211> 2202

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2148

<223> n = a,c,t, or g

<400> 236

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<210> 237

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 237

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<210> 238

<211> 979

<212> DNA

<213> Homo sapiens

<400> 238

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<210> 239

<211> 2193

<212> DNA

<213> Homo sapiens

<400> 239

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<212> DNA

<213> Homo sapiens

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a a a a c a t t g g   t c a t g t a t t a   a g c a g a a a c a   g t g t t c a t a a   c a t t t t t c t g   g g t t t t a a t   600
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a c a t a g t g c c   c t g t t a a a t t   c c c c c a c t t t   a a c t t c c t t g   t g a t c a a c a g   t a a c t g g a t g   780
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g c c c t t g a c t   g t a g t c a c c c   t g c t c c a g g c   c t c c a a t g t g   c c t g c t g t g g   t g g t g g g g a g   780
g g t g g g t a c c   a g g a g c a a g g   g a c a a g a t g t   t g t g g g g g c a   g g g t c g g g g g   g a a g a g t a g a   840
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c a a a g g t c t c   a a c t c c t c c c   c a g g c a g c c a   c a a a g t g t t   g g g g c t c c c t   g g c c c g a a t c   960
a c a g g c c a g c   t c t c a g c c a t   c a c a g t c c t c   c t g c t g t t t g   g g g g c t c c c t   g g c c c g a a t c   1020
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<212> DNA

<213> Homo sapiens

<400> 246

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<211> 2254

<212> DNA

<213> Homo sapiens

<400> 247

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<210> 248

<211> 2730

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 1678

<212> DNA

<213> Homo sapiens

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<211> 1595

<212> DNA

<213> Homo sapiens

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<211> 3548

<212> DNA

<213> Homo sapiens

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<211> 1850
<212> DNA
<213> Homo sapiens

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<211> 1767

<212> DNA

<213> Homo sapiens

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<211> 286

<212> DNA

<213> Homo sapiens

<400> 254

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<210> 255

<211> 1896

<212> DNA

<213> Homo sapiens

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<211> 2825

<212> DNA

<213> Homo sapiens

<400> 258

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<210> 259
<211> 2296
<212> DNA
<213> Homo sapiens

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<210> 260
<211> 1801
<212> DNA
<213> Homo sapiens

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<210> 261
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 <212> DNA
 <213> Homo sapiens

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<400> 261
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<210> 262
 <211> 1841
 <212> DNA
 <213> Homo sapiens

<400> 262

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<210> 263
 <211> 1907
 <212> DNA
 <213> Homo sapiens

<400> 263

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<210> 264

<211> 697

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265

<211> 1960

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 977

<212> DNA

<213> Homo sapiens

<400> 266

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aaaagtgtctg ccgtact 977

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<210> 267

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 267

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<210> 268

<211> 2513

<212> DNA

<213> Homo sapiens

<400> 268

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<210> 269
 <211> 1693
 <212> DNA
 <213> Homo sapiens

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<400> 269
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<210> 270
 <211> 2149
 <212> DNA
 <213> Homo sapiens

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<400> 270
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<210> 271
<211> 1812
<212> DNA
<213> Homo sapiens

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<400> 271
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<212> DNA

<213> Homo sapiens

<400> 272

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<211> 1542

<212> DNA

<213> Homo sapiens

<400> 273

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<210> 276

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 276

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<210> 277

<211> 1829

<212> DNA

<213> Homo sapiens

<400> 277

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<210> 278

<211> 2470

<212> DNA

<213> Homo sapiens

<400> 278

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 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<400> 282

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<211> 3384

<212> DNA

<213> Homo sapiens

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<211> 2571

<212> DNA

<213> Homo sapiens

<400> 284

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<210> 285

<211> 1861

<212> DNA

<213> Homo sapiens

<400> 285

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<210> 286

<211> 2153

<212> DNA

<213> Homo sapiens

<400> 286

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<210> 287

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 287

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<210> 288
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 <212> DNA
 <213> Homo sapiens

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<210> 289
 <211> 520
 <212> DNA
 <213> Homo sapiens

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<400> 289
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<210> 290
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 <212> DNA
 <213> Homo sapiens

<400> 290

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<210> 291

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 291

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<210> 292

<211> 1845

<212> DNA

<213> Homo sapiens

<400> 292

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<210> 293

<211> 1241

<212> DNA

<213> Homo sapiens

<400> 293

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<210> 294

<211> 1608

<212> DNA

<213> Homo sapiens

<400> 294

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<210> 295

<211> 2236

<212> DNA

<213> Homo sapiens

<400> 295

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<210> 296

<211> 748

<212> DNA

<213> Homo sapiens

<400> 296

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 <211> 3211
 <212> DNA
 <213> Homo sapiens

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<400> 297
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<211> 3479

<212> DNA

<213> Homo sapiens

<400> 298

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<210> 299

<211> 416

<212> DNA

<213> Homo sapiens

<400> 299

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<210> 300

<211> 259

<212> DNA

<213> Homo sapiens

<400> 300

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tctttccctg gatgctgctt ctcaagtaac tccctctctc ttcgtgtgtg tactcggcct 180
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<210> 301

<211> 2968

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302

<211> 2023

<212> DNA

<213> Homo sapiens

<400> 302

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<210> 303
 <211> 1746
 <212> DNA
 <213> Homo sapiens

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aattcc 1746

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<210> 304
 <211> 1774
 <212> DNA
 <213> Homo sapiens

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<210> 305

<211> 677

<212> DNA

<213> Homo sapiens

<400> 305

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<210> 306

<211> 1315

<212> DNA

<213> Homo sapiens

<400> 306

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<210> 307

<211> 950

<212> DNA

<213> Homo sapiens

<400> 307

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<210> 308

<211> 1947

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1947

<223> n = a,c,t, or g

<400> 308

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<210> 309

<211> 2322

<212> DNA

<213> Homo sapiens

<400> 309

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2322

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<210> 310
<211> 1898
<212> DNA
<213> Homo sapiens

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<400> 310
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1898

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<210> 311
<211> 1808
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 801
<223> n = a,c,t, or g

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1808

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<210> 312

<211> 2589

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 637,1872

<223> n = a,c,t, or g

<400> 312

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<211> 1757

<212> DNA

<213> Homo sapiens

<400> 313

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<400> 314

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 <212> DNA
 <213> Homo sapiens

<400> 315

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<212> DNA

<213> Homo sapiens

<400> 316

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<211> 418

<212> DNA

<213> Homo sapiens

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<211> 2706

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<210> 321

<211> 1640

<212> DNA

<213> Homo sapiens

<400> 321

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<210> 322

<211> 2670

<212> DNA

<213> Homo sapiens

<400> 322

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<210> 323

<211> 1914

<212> DNA

<213> Homo sapiens

<400> 323

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<210> 324

<211> 2275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2149,2268,2273

<223> n = a,c,t, or g

<400> 324

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<210> 325

<211> 2029

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1929,1993

<223> n = a,c,t, or g

<400> 325

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<210> 326

<211> 403

<212> DNA

<213> Homo sapiens

<400> 326

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ttatgcccc	tcacatcttc	tttactgtaa	aaatattaaa	aagctgtttc	caagtgggac	360
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<210> 327

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 327

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<211> 1855

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1855

<223> n = a,c,t, or g

<400> 328

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<210> 329

<211> 2095

<212> DNA

<213> Homo sapiens

<400> 329

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<210> 330

<211> 2380

<212> DNA

<213> Homo sapiens

<400> 330

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<211> 1266

<212> DNA

<213> Homo sapiens

<400> 331

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<211> 1473

<212> DNA

<213> Homo sapiens

<400> 332

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<211> 2076

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1969-1972, 2024, 2026

<223> n = a, c, t, or g

<400> 333

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<210> 334
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 <212> DNA
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 <212> DNA
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<210> 336

<211> 1215

<212> DNA

<213> Homo sapiens

<400> 336

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<210> 337

<211> 3090

<212> DNA

<213> Homo sapiens

<400> 337

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<211> 2594

<212> DNA

<213> Homo sapiens

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<211> 1062

<212> DNA

<213> Homo sapiens

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<212> DNA
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<210> 341
<211> 2678
<212> DNA
<213> Homo sapiens

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<210> 342
<211> 1753
<212> DNA
<213> Homo sapiens

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<400> 342
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<210> 343
<211> 2053
<212> DNA
<213> Homo sapiens

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<400> 343
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<210> 344

<211> 1917

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1867

<223> n = a,c,t, or g

<400> 344

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<210> 345

<211> 512

<212> DNA

<213> Homo sapiens

<400> 345

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<210> 346

<211> 1814

<212> DNA

<213> Homo sapiens

<400> 346

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<210> 347

<211> 1733

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 314

<223> n = a,c,t, or g

<400> 347

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<210> 348

<211> 3032

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2812

<223> n = a,c,t, or g

<400> 348

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<210> 349

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 349

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<210> 350

<211> 2439

<212> DNA

<213> Homo sapiens

<400> 350

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<210> 351

<211> 908

<212> DNA

<213> Homo sapiens

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<223> n= a,c,t, or g

<400> 351

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<210> 352

<211> 1497

<212> DNA

<213> Homo sapiens

<400> 352

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<210> 353

<211> 843

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 354

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<210> 355

<211> 1859

<212> DNA

<213> Homo sapiens

<400> 355

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<211> 1088

<212> DNA
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<400> 356

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<212> DNA
<213> Homo sapiens

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<211> 1608

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 522

<212> DNA

<213> Homo sapiens

<400> 364

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<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<400> 366
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<210> 367
 <211> 1351
 <212> DNA
 <213> Homo sapiens

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<400> 367
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<210> 368
 <211> 1045
 <212> DNA

<213> Homo sapiens

<400> 368

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<210> 369

<211> 1781

<212> DNA

<213> Homo sapiens

<400> 369

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<211> 404

<212> DNA
<213> Homo sapiens

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<210> 371
<211> 1219
<212> DNA
<213> Homo sapiens

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<211> 1690
<212> DNA
<213> Homo sapiens

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<210> 373

<211> 297

<212> DNA

<213> Homo sapiens

<400> 373

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<210> 374

<211> 1150

<212> DNA

<213> Homo sapiens

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tcaaagtact ggaaaagagc tctttgagat gtggaagata ataaatccca tggggctatt 720
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aacttgagag cgaaagttag ataaatgtca aagggtgtttc aagccagaca ttttcacaat 1080
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```

<210> 375

<211> 623

<212> DNA

<213> Homo sapiens

<400> 375

```

ctggagcctg atgaagaact ggaagacaac cccaaccaga gtgacctgat tgagcaggca 60

```



```

gccgagatgc tttatggatt gatccacgcc cgctacatcc ttaccaaccg tggcatcgcc 120
cagatgttgg aaaagtacca gcaaggagac tttggttact gtcctcgtgt gtactgtgag 180
aaccagccaa tgcttcccat tggcctttca gacatcccag gtgaagccat ggtgaagctc 240
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gcctaccagc tgcagctcca agccgccagc aacttcaaga gccagtcaa gacgattcgc 480
tgattccctc cccacctgt cctgcagtct ttgacttttc ctttcttttt tgccaccctt 540
tcaggaaccc tgtatggttt ttagttttaa ttaaaggagt cgttatcgtg gtgggaatat 600
gaaataaagt agaagaaaag gcc 623

```

<210> 376
 <211> 1108
 <212> DNA
 <213> Homo sapiens

```

<400> 376
ggaccgagtc cttggetgccc tgtggagctc ctgtgccagc agctgcgccc ctgctgcgct 60
ccgatacccc ccattccccgc caccgccgac ctcccgcctc accgactgct gctcacgccc 120
gacgggttca cgccgcccct gccccgtgaa ggaccgcgct gcggtgcgga ggcaggatga 180
cgcaaaacac ggtgattgtg aatggagttg ctatggcctc taggccatcc cagcccaccc 240
acgtcaacgt ccacatccac caggagtcag ctttgacaca actgctgaaa gctggaggtt 300
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tgcggcgaag tcaagagaac caatggcaga aggaggagtg tagagcttac atgcagatgc 660
tgaggaaagt gttcacagca atccgtgccc tgttcctggc tgtctgtgtc ttgaaggtca 720
ttgtgtcctt ggtttccttg ggagtaggtc ttcgaaactt gtgtggccag agctcccagc 780
ccctgaatga ggaaggatca gagaagaggc tactggggga gaattcagtg ccccttcgc 840
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tcccctatgg ccgtcttcca gacctctc ctttcttctc cccacatccg cacctgctgt 1020
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taaacataat aaacaatcca gaaaagcc 1108

```

<210> 377
 <211> 574
 <212> DNA
 <213> Homo sapiens

```

<400> 377
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ccgaggcgag ccgcgcaagt ttcccgggac cctcagagtt gcaactccga gactccagat 180
tccgagagtt gcggaaacgc tacgaggacc tgctaaccag gctgcgggccc aaccagagct 240
gggaagattc gaacaccgac ctgctcccgc cccctgcagt ccgatactc acgccagaag 300
tgcggctggg atccggcggc caccctgcacc tgcgtatctc tcgggcccgc cttcccagg 360
ggctccccga ggctccccgc cttcaccggg ctctgttccg gctgtccccg acggcgctca 420
ggtcgtggga cgtgacacga ccgtgcggc gtcagctcag ccttgcaaga cccagggcgc 480
ccgcgtgca cctgcgactg tgcgcggcgc cgtcgcagtc ggaccaactg ctggcagaat 540
cttcgtccgc acggccccag ctggagttgc actt 574

```

<210> 378
 <211> 2235
 <212> DNA
 <213> Homo sapiens

```

<400> 378
cttagggccc ctctcttttg ccattctgct ctagggtcca tccctggggcc tgaagcgctt 60

```

```

gtttctctgcg ctgggaaaaag gggaaacgatg gagcgatcca gcacccaaac ttaccctgtc 120
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tgtgtgctgc gccggccagg agctaaccat gaaggctcag cttcccgcca gaaagccctg 480
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ttgcagccat ctactgctgc tgtaccctag gaatatgggg acatggacat ggtgtcccat 2040
gccagatga taaacactga gctgccaaaa cattttttta aatacacccg aggagcccaa 2100
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aagatgtttc tagac 2235

```

<210> 379

<211> 1543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 776,1178,1487

<223> n = a,c,t, or g

<400> 379

```

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ccgtgcaagt aaactcactc aggtgttaag agattctttc atagggtgaaa actctcgtac 180
ctgcatgatt gccacaatct ctccaggaat ggcatcctgt gaaaatactc ttaatacatt 240
aagatatgca aatagggtca aagaattgac tgtagatcca actgctgctg gtgatgttcg 300
tccaataatg caccatccac caaaccagat tgatgactta gagacacagt ggggtgtggg 360
gagttccctc cagagagatg atctaaaact tctttgtgaa caaatgaag aagaagtctc 420
tccacagttg tttactttcc acgaagctgt ttcacaaatg gtagaaatgg aagaaaaggc 480
tgtagaagat cacagggcag tgttccagga atctattcgg tggttagaag atgaaaaggc 540
cctcttagag atgactgaag aagtagatta tgatgtcgat tcataatgcta cacaacttga 600
agctattctt gagcaaaaaa tagacatttt aactgaactg cgggataaag tgaaatcttt 660
ccgtgcagct ctacaagagg aggaacaagc cagcaagcaa atcaaccgca agagaccccc 720

```

```

tgccctttta aaccggcatt tgctgctaaa ggataccag aaccctcact actgtnacat 780
acaacggttc agctgtaagg gccatthttaa agthttggaat ttttaagtgtc tgtggaaaat 840
gttttgtcct tcacctgaat tacatthtcaa ttttgtgaaa cactcttttg tctacaaaat 900
gcttctagtc caggaggcac aaccaagaac tgggattaat gaagcatttt gtttcattta 960
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tgacagtgga tttggctgct ggaccattcc atcttatatg taaagaaatc tggaattatt 1440
atthttaaac catataacat gtgattataa tthttcttag cattthntth gtaaagaact 1500
acaatataaa ctagttgtgt tataataaaa agtaatgaaa ttc 1543

```

<210> 380
 <211> 1087
 <212> DNA
 <213> Homo sapiens

```

<400> 380
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ccccgaaaag caaaggagga tggcagcaaa caagtgtctg tgcacaggag tcagagaggg 120
ggaaccgccc tcccaacatc aaaaaaagtg aaagaagccg gaagagattt tacctattta 180
atagtggtgc tttttggaat cagcattaca ggtggcttgt tttacacgat tttcaaagaa 240
ctthtttctt catccagtcc tagcaagata tatgggagag ccttagaaaa atgcagatca 300
catcctgagg tgatcgggtg ctttgggtgag tctgttaaa gctatgggga ggtgacaagg 360
cggggtcgcc ggcagcatgt caggthtact gaatatgtaa aagatgggct gaaacacacg 420
tgtgtgaaat tctacattga gggtctgtag ccagggaagc aaggaaagggt gtatgcgcaa 480
gtgaaagaga acccaggaag tgggtgaatat gattthtcat atatatthgt agaaattgaa 540
tcttatccta gaagaactat tatcattgaa gataatcgat cccaagatga ttaaaataat 600
caagcaagca ggtthtctgat ggatgttgaa tggcgtggac tgcctactcc gttcttcaca 660
gctgccttcc agaatgtgtt caaaagaaa acaagaagga gtgtatggct tataaagtga 720
atctaataca gtatttggtg catttaaaaca aactagacat thtcttacgg aaaaattatg 780
aaatacagca tatthttatgt tctcccattg actcaatcat gacaatattt ctgctthaac 840
accatcttht gtgattagaa atgthttgta ttggaaatgt tacaccatgt aaataaagga 900
aatagattht agtattgtat tcattthtata ttatagaact gcataatgtc tgcagaataa 960
aattaaaact aacaaatatg tcatttagcag ctgcctcccg catactttgg aatctgactt 1020
gagataagca tgtgaaaatg gttgagggcc atagggaacc agatggtaaa tacattcttc 1080
aaaattg 1087

```

<210> 381
 <211> 2349
 <212> DNA
 <213> Homo sapiens

```

<400> 381
gcagcaagaa gctgacgggt cgctcatgc tggctgtggg aggagcagtg cttggctccc 60
tgcagthttg ctacaacact ggagtcatca atgccccca gaaggtgatc gaggagthtct 120
acaaccagac atgggtccac cgctatgggg agagcatcct gccaccacg ctccaccagc 180
tctggtccct ctcagtggcc atctthtctg ttgggggcat gattggctcc ttctctgtgg 240
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tcgtgtccgc cgtgctcatg ggcttctcga aactgggcaa gtcctthtgg atgctgatcc 360
tgggcccgtt catcatcggt gtgtactgtg gcctgaccac aggtctcgtg cccatgtatg 420
tgggtgaagt gtcaccaca gcccttcgtg gggccctggg caccctgcac cagctgggca 480
tcgtcgtcgg catcctcatc gcccaggtgt tcggcctgga ctccatcatg ggcaacaagg 540
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tgccctthtgc ccccgagagt ccccgcttcc tgcctcatca ccgcaacgag gagaaccggg 660
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tgaaggaaga gagtccgcag atgatgcggg agaagaagg caccatcctg gagctgttcc 780
gctccccgc ctaccgccag cccatcctca tcgtgtgtgt gctgcagctg tcccagcagc 840

```

```

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tatatatatt tttggttgtc aatattaaat acagacacta agttatagta tatctggaca 2280
agccaacttg taaatacacc acctcactcc tgttacttac ctaaacagat ataaatggct 2340
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```

<210> 382

<211> 342

<212> DNA

<213> Homo sapiens

<400> 382

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cggacgcgtg ggtgcaaaac aaaaaatttt aaaagaaaat gtgacttcaa aggaaaagaa 60
caaatttcca aagacttggg ggagtgaagg cagagcctgg tgcagatgga cgaggtctgc 120
agacggaggg cagaggtggt ggaagggggc aggggcctgc aggcctcccc ctggaactgg 180
gactggcttc ggtctgtgta cgtcagggtc agctcccccg cggagctgac ttcagcagcc 240
cacagctgtg gggcttcagc agccacacca gccagccca gccagctct cgatacgttt 300
ggtctttcat gctgaaaaat aaataataaa goctgtcccc tg

```

<210> 383

<211> 295

<212> DNA

<213> Homo sapiens

<400> 383

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atgagaagat cttgctcctt cagactctga cctgagtgga gacctttcca ccagacacag 60
ctcgggcctg tgtaattgta ggagaagaca ctcagcagtg attgccatgg cacagagccg 120
tggtcattgt tgctgttaca aagaagaaaa ccatctgagt tctaactcct tggttgctta 180
aaagtagttc ccaagagtct gagaagctat ttctattttt aagagtcatt ttttgtaatt 240
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```

<210> 384

<211> 549

<212> DNA

<213> Homo sapiens

<400> 384

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catcttttgt ctttccgtgg agctgtcggc atgaaggtcg agctgtgcag ttttagcggg 60
tacaagatct accccggaca cgggagggcg tacgccagga ccgacgggaa ggttttccag 120
tttcttaatg cgaaatgcga gtcggctttc ctttccaaga ggaatcctcg gcagataaac 180

```

```

tggactgtcc tctacagaag gaagcacaaa aagggacagt cggaagaaat tcgaaaagca 240
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gtatgggcca agaggaatca gaaacctgaa gttagaaagg ctcaacgaga acaagctatc 360
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gctaaggcac ctacaaaggc agcacctaag caaaagattg tgaagcctgt gaaagtttca 480
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ttataactc
549

```

<210> 385

<211> 1881

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 649

<223> n = a,c,t, or g

<400> 385

```

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taattagcat tttcatcata tttttgttag tgataggaac tcttctttta gccctactcc 120
tgactgcaaa ggtacatcaa gagagtgtac acatgattga agtcacaagt aatttgatta 180
atgaaactct agcaaatcac cctgagtggg caaattggct tcctgaggct caggtagtcc 240
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gaaggcacia aggacagaag ttgcatgtca acgagaacat tgaga 'attt ctttcgatct 480
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tgtattttta aacacagctt gagagttcag agttgggtgt ttgctcactt aactgttgtt 1560
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<210> 386

<211> 435

<212> DNA

<213> Homo sapiens

<400> 386

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<210> 387

<211> 945

<212> DNA

<213> Homo sapiens

<400> 387

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<210> 388

<211> 1091

<212> DNA

<213> Homo sapiens

<400> 388

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<210> 389

<211> 2026

<212> DNA

<213> Homo sapiens

<400> 389

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<210> 390

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 390

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<210> 391

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 391

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<210> 392

<211> 475

<212> DNA

<213> Homo sapiens

<400> 392

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<210> 393

<211> 1512

<212> DNA

<213> Homo sapiens

<400> 393

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<210> 394

<211> 489

<212> DNA

<213> Homo sapiens

<400> 394

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<210> 395
 <211> 380
 <212> DNA
 <213> Homo sapiens

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<210> 396
 <211> 1542
 <212> DNA
 <213> Homo sapiens

<400> 396
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 <211> 1874
 <212> DNA
 <213> Homo sapiens

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<210> 398
<211> 1186
<212> DNA
<213> Homo sapiens

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<400> 398
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<210> 399
<211> 2749
<212> DNA
<213> Homo sapiens

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<400> 399
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tgccccagg tctgaggtc tgcatcacc atcaggaagg ggaaaagatt tctgcaaatg 180

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<210> 400

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 400

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<210> 401
 <211> 1004
 <212> DNA
 <213> Homo sapiens

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<400> 401
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<210> 402
 <211> 1518
 <212> DNA
 <213> Homo sapiens

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<400> 402
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<210> 403
<211> 869
<212> DNA
<213> Homo sapiens

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<400> 403
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<210> 404
<211> 814
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 321,644,709,749,812
<223> n = a,c,t, or g

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<400> 404
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<210> 405
<211> 1148
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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<222> 204

<223> n = a,c,t, or g

<400> 405

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<210> 406

<211> 878

<212> DNA

<213> Homo sapiens

<400> 406

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<211> 1832

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<213> Homo sapiens

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<221> misc_feature

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<400> 407

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<211> 2596

<212> DNA

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<223> n = a,c,t, or g

<400> 408

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1283

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 419

<211> 1923

<212> DNA

<213> Homo sapiens

<400> 419

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<210> 420

<211> 534

<212> DNA

<213> Homo sapiens

<400> 420

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<210> 421

<211> 506

<212> DNA

<213> Homo sapiens

<400> 421

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<210> 422

<211> 1109

<212> DNA

<213> Homo sapiens

<400> 422

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<210> 423

<211> 1468

<212> DNA

<213> Homo sapiens

<400> 423

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<210> 424

<211> 677

<212> DNA

<213> Homo sapiens

<400> 424

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<210> 425
<211> 1654
<212> DNA
<213> Homo sapiens

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<210> 426
<211> 1657
<212> DNA
<213> Homo sapiens

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<223> n = a,c,t, or g

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<210> 427

<211> 562

<212> DNA

<213> Homo sapiens

<400> 427

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ctgcagcatg gtgctgacat tgataactga aagtcaacta atgagaattt gagacttctg 180
aagtacactt agttgctagt gtctcccttt tgggtgtcact ggaaagttaa gaaagcatgg 240
ttttgttttt gctcaggttt ctctttctgt gatgcagaga ctctcagctg ttctctctct 300
atgtctacat tatgtctgaa ggaaagaatt taacaaaact tgaaatactg ctgtttttct 360
acaatgtttg taaatattta tcttgctgct tttctagttt tgtcttctgg atttaaaatt 420
tggggcggct ggggtggaat tgcattggtt ggggaatggg agttgagctg ctgctcatta 480
tggtatgtaa cagtgatttg tctgtttaat atgtacaaga actggaaggt caataaaatg 540
aaagtgggtg tcttgactgg gt 562

```

<210> 428

<211> 466

<212> DNA

<213> Homo sapiens

<400> 428

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gctgtgagaa gtatccgcga cgagctatcc gggaaagggc cgaatgcgat caaacctaatt 60
ccgcgagact tgctaagggt ctgtgctaca aattgatgtt tagataaact tcagtgaatt 120
gactcttcag gaattggtgc ataaggctgc ctctgttat atggacagag tagctgtatg 180
ttttgatgaa tgcaacaacc agcttccagt ttactacacc tacaagactg tgggttaatgc 240
tgcttctgaa ttatcaaatt ttctgctgtt acactgtgac tttcaaggaa ttcgggaaat 300
tggtctctac tgccaacctg ggatagactt accctcttgg attttaggaa ttctccaagt 360
cccggctgct tatgtacctg tcgagccaga ttcaccacg tcattatcaa ctcatcttat 420
gaaaaaatgt aatctaaagt atatccttgt tgaaaaaaa caaatt 466

```

<210> 429

<211> 859

<212> DNA

<213> Homo sapiens

<400> 429

```

ctggagcctc catccgcagt cacacgtgta cagatctggg gatttggatg tatgcttttt 60
ctaacttctc tctcagaagc ttctacagaa acccttccat ctgtagcctc aaggggccac 120
ctccaaggga aggcttaggc aatgatcctg tttctaccaa cacttgcacc ttatcccagg 180
aacctgccct agacctcca gagaccatat tttctctccc tccatttcta cccagacctc 240
caggcctcct tctggaatca tagaaccgta gaattggaag gaattttaga ggttttctag 300

```

ttggagttgt	gtccaacaga	attcattaac	accagcctgg	gcttggtttt	cctcctccct	360
ctggactttt	ttcatctttt	cctccacctc	aaaaaatact	tacacacaga	ttcttcttgt	420
acaggcatca	aaaccaactc	ctctgcccc	aaggetgtgt	ccctgtggtc	tccagccacc	480
cctaccccag	tactctgccc	cttctctatc	tctggaattt	ggccaggcag	tcccagaaga	540
ctctggagtg	acctcctttg	cctaaaaagc	agacagatag	gcatgcccc	ggccctgagt	600
gagcagagga	ggactgtagg	gtgagaggga	aagaaaatga	aggtgacttt	catggaagtt	660
tcatttcttt	tccccgattg	taccaactgc	atgtactttt	ggcctggctg	caaggagcaa	720
tattggttta	ctctcgtatc	cttaaaaagt	tacagaactg	tgtcttaaga	gaattattta	780
tagttactat	aactgaattg	acaaatgtca	acttaactga	taaattatat	ttggtaaaa	840
aaagaggacg	tttatttag					859

<210> 430

<211> 534

<212> DNA

<213> Homo sapiens

<400> 430

tcaaggcaaa	agtggaacct	taaagtgatc	catagctgtc	tttgtatgat	caaaagatgc	60
acagcttttt	attagtcagg	aaaaggagaa	agtgtttttt	tctggaagca	aacttaaaga	120
catttcaaaa	agatatacag	acgatctccg	atttaagatc	gtttgactta	agatttttca	180
actctatcat	agtacccatt	gcaaccaacc	tggttttcac	ttttggtaca	tatttggttaa	240
attatatgag	gtatccaata	ctttattata	caagtagatt	tgtgttagat	gattttgccc	300
aacctataga	ctaattggaag	tgttctgagc	acatttaaga	tagactaggc	taggctgtgg	360
tgttccgtag	gttaggtgta	ttaaattgcat	tttctactta	gaatgttttc	aacttacgat	420
gagtttattg	ggatgtaacc	ccaccgtaag	tcaaggggca	ttggtattga	acctcataaa	480
acagaatgcc	tttaggagat	gttttcaaaa	aagaaacaga	aactatacca	ggac	534

<210> 431

<211> 1038

<212> DNA

<213> Homo sapiens

<400> 431

cacaaataga	actttatcta	acaaatcact	ttcaaaaata	acagggtcaac	tgtattttaat	60
ttgtttatgt	cacttataac	ttacctat	ctgtatcagg	taggaatgtt	ttctgcttta	120
agtaacacaa	aagatccaag	tggcaatggt	tcttcaaata	ggggtttttc	tcagataaca	180
agaagtctaa	aggagctggc	cactggcatt	ggtttagtga	ctcagtgata	tcaggggctc	240
agattccttt	agcctttctg	tcatggaaac	aagatggcca	ttgcagttca	agccaatgtg	300
tctgtattca	agacaaaaag	aagggggaagc	agggccttcc	acatctgatc	cttttctcat	360
aaatgtaaaa	tcttttctag	aaatttagat	cagacttggt	ttcatctgct	agccataaat	420
gtacaacatg	atcacccctt	gttcccagga	aagtgggaaa	atgaagctgt	acgcctttcc	480
agtctcacta	atggaagggtg	ggaaaaggaaa	atggggattg	ggaattacca	tggatcagac	540
aaccaacagt	tttgccacca	gttataatta	gagcagaggt	cattttatat	ttgaatcttt	600
tctgtaatgt	cttcataaag	ctcactttat	tattattttt	gtttgttttt	gagacgagtc	660
tcgctcgggt	gcccaggctg	gagtgacgtg	acgcaatctc	ggctcacgca	acctccacct	720
cccaggttca	agtgattctc	ccacctcagc	ctcctgagca	gctgggacta	cagacatgca	780
ccaccgcacc	cagctaattt	ttttgtgttt	ttagtagaga	ccgggtttca	ccatgttggt	840
caggctgggt	tcaaactcct	gacttcaaat	gatccgcccc	cctttgcctc	ccaaagtgtt	900
gggattacaa	gcatgagcca	ctgtgcctgg	cacataaagc	tcactataaa	actgcagtcc	960
taagtactta	aaaatttcct	cattgttgga	tatctagt	tgttttcagt	gctaacctaa	1020
tataaaaaaa	tactacac					1038

<210> 432

<211> 717

<212> DNA

<213> Homo sapiens

<400> 432

gacttggttt	cttagctaga	aaccagaaga	ctacgggagg	gaatataagg	cagagaacta	60
tgagtcttat	tttattactg	tttttcaacta	cctactccca	caatggacaa	tcaattgagg	120
caacctacaa	gaaaacattt	acaaccagat	ggttacaaat	aaagtagaag	ggaagatcag	180

```

aaaacctaag aaatgatcat agctcctggt tactgtggac ttgatagatt tgaggtacct 240
agttcagaac tccctagtc aatctctcaa gctgtgcaac atcactgcat attggaggag 300
atgactgtgg taggacccaa ggaagagatg tgtgcctgaa tagtcgtcac catatctcca 360
agcttcctgg caaccagtgg gaaaagaaac atgcgaggct gtaggaagag ggaagctctt 420
ccttggcacc tagaggaatt agccattctc ttccttattg caaaagattg aggaatgcaa 480
caatattaag aagaggaagt cccagatgg gtagagagca gtcatactct acccctagat 540
gttcatccca gcagaagaaa gaagaagggt ttggggtagg attcttcaga ggttagcctg 600
gtactttctc atcagacact agcttgaagt aagaggagaa ttatgctttt ctttgccttt 660
tctacaaacc cttaaaaatc acttgtttta aaaagaaagt aaaagccctt ttcattc 717

```

```

<210> 433
<211> 1231
<212> DNA
<213> Homo sapiens

```

```

<400> 433
cttttactat ctgcccgaag ctgtcctggc ttgcatcaac atctccagca tgcgccaggt 60
gttctgccag atgcaggaac ttccacaact atggcacatc agccgagtgg actttgtgag 120
aaatgccatt acccccagat tgcctctctc catcttgta gcatccccag cctctgccct 180
gaacccaaacc taattgtcct ggtcttaagt tctgcaacc acccactccc ccagcaaaaca 240
taactcctag tatgctttac tcacaggcaa gggaaaggat ggggtttgaa cccctttggc 300
ctgaatattt gtaacttccc aactggtgag ggtcattaca tttggtgtgt gtccattga 360
atcaaccctg ttgtttcctt ctgtcatgct ttccacttct tcctggatca tctctcccca 420
tacttgcct tggtagtcac tgccttgat ctctttaccc agcagtgatg gcctggcttt 480
tcttttgggc aatccacccc tatccctatc ctgcaggctg tgtggatggt cacctgggtg 540
gcagtagtga ccctgagtgt ggatttgggc ctggctgtgg gtgtggtctt ctccatgatg 600
actgtggtct gccgcaccgc gagctcctcc aggtcccggg gctctgcac ctgagctatc 660
caacaccact gtactttggg acccgtgggc agtttcgctg caactctggg tggcacctgg 720
ggctcggaga aggagaaaag gagacttcaa agccagatgg cccaatggtt gcagttgctg 780
agcctgtcag ggtggtggtc ctgacttcaa gtggtgtcac ctttgcagat gctgctggg 840
ccagagaagt ggtgcagctg gccagccgat gtcagatgc taggatccgc ctctcctgg 900
ctcagtgtaa tgccttgggt caggggacac tgaccgggt aggactcctg gacagggtga 960
ctccagatca gctgtttgtg agtggtcagg atgcagctgc ttatgccctg gggagcctgg 1020
taaggggcag tagcaccagg agcgggagcc aggaggcact gggctgcggc aagtgaggca 1080
ggggagctca ctgacccaaa gatttgcacc gtgtgggtct gacctcatca tgtggagtgc 1140
agagggccct gatgacatgt gtgtgatgag gaccatgacc cttgaacccc cttacctaac 1200
gtaactaata aaatgaagct gagagctttg g 1231

```

```

<210> 434
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 434
ggctactctg cctccatcag catcttcaaa ttccaggctc tggcctttca ccgaatgcac 60
ttcccaccag tctgttttac actgccagg tccgctagga gctttccac ctctgcagg 120
gcaggcctcg ctgcttctta aggcctttct ctgggggtggg aggaaacgga aactgtatga 180
ttgtctttca tattcacttt tatagacct taatgtctac aatgtctgag agtggcgttt 240
gcggcatgac ttttaaaaaa atgtcctgct ggtattggac cttttctgtg tttgtgaaat 300
tgctattttg tattaacaca gtatttgata aacatttata ttaagaagaa taatccctct 360
gctgaatatt attgtttcca atggagtaga aagaactt 398

```

```

<210> 435
<211> 551
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 231
<223> n = a,c,t, or g

```

```

<400> 435
ctcttctccc ggtcccatct tctgagaggg cttctcagcc tggaaactat ggaaacagca 60
tcaaagagaa aggaatgtgg ggggtttccg ctgcccccca ccccagcgg cccaccccat 120
gcctcagctt catgtctgtc ccatttcctat accatcccca cctgtttgta tgtattatag 180
gatttgtatt ttctcctttt ttttccccct tccattcctt cttccccctt ngcattcaag 240
attatgaaac tttgctatgg gccctgcact tcctttgctt cctcctgttc accctggtgg 300
tgtacggatg aggcggagag gtgggacccc caaatatata tcagcccaac agccctaagt 360
ctccttcttt tattattagg aaaacaacaa caacaacaaa caaaaaatg gcgtcatgaa 420
tatgaacagc attgtcagat gaattagttg aagtggtttt ttttttgttt tttttttttt 480
tttttgtact gtgtcctcaa atttaatgga ttaatgtgtc ttgtatatat aaaaagaaaa 540
cctctacctt c
551

```

```

<210> 436
<211> 664
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 123,451,600,599,622,623
<223> n = a,c,t, or g

```

```

<400> 436
acatggagaa actctacaaa aattacagga attagctgga cgttgtagtg tgtgcctgtg 60
ttcccagctt cctgggaagc agaggcagga ggatcacttg aggccagtag tttgaggcta 120
cantgagctg tgatccaaca actgcactcc acccgggggt gacagagtga aacctgtct 180
caaaaaagaa aaagtatgtt gatgttgatg ttggttaagga ggaucatgaa cgtttcatgt 240
gtaatggtgt tcctccacta ttcacctggc gggacgtggc tctgaagcag caggcacaag 300
gagaatgggt gcctatgagt ggcaaagaaa agaggggcaa tcccgaactc taagtaacgg 360
tcaagacatc tagctcaagc cgggcgcagt ggctcatgcc tgtaatcca aaactttggg 420
agggccgagg cgggcggatc acttgagttc naggagtttg aagtcagcct ggccaacatg 480
gcaaaacccc catctctact aaaaatacaa acattagccg ggcggtggtg tgggcaccct 540
gcaatcccag ctactcagga ggcggaggca ggagaatcgc ttgaacccgg gaggcggann 600
ctgcagttag ctgagatcac annactgca ctccagctgg ggcggcagag tgagactgtc 660
tcag
664

```

```

<210> 437
<211> 925
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 905
<223> n = a,c,t, or g

```

```

<400> 437
gctgggtaat acctggtgtc tgagtgattc tctgcagacc cttccccctcc tcaaggatca 60
cccacccctc ttccagcccc ctttatgggg accaggcagc tctggagcca gccacagggg 120
ctgttagaga agcaaggcct ggagtggcct gcaccgagta gcagggtcag ggttcgtgtg 180
ctcctcctcc tgctgcaggg gctgcacatc ccattgcccc acttctgctt tgtgtctccc 240
tctgtctagc ttccagggca gggagcaggc cccacctagg gctgcaggca gtctggcctg 300
tgccagcacg gtctcctgtg cccaccagcc ccacagggtg tgtgctttgt gctcttggct 360
gctgtgctgg gacagaatgg gatgccagga agagaagaaa ggggggtgcag tctgaggcca 420
ccacccccct tcctatctaa gggagggctg aagacaaggg gccggcattc agtggcagca 480
gaaaggagag gctccttgaa gctgctcagt cagaggcccc cgtccctcct tttgccttcc 540
gcagactgaa gacccaaggg ggctggcttt tggagtgttg aggtgaatat ctgggagcag 600
agatcatgaa tagctcaggg cagtgaatgg cgcaccaaga gcagggtgtg gtgtgggagg 660
ctgcagccag gattgcttca gctcctcccc ctccaggtgg gaggatagca caggctaggg 720
gctcgggggtg gagggtctca gctctgctgc cccaccccca gtactagcct agcttcccaa 780

```

```

gctgtggctt agaggatagt tggcttcctg cctctctcct ctaaaatagc aagtctggga 840
aatcctgggg tgagtggagt caccaccact ccagttgctg gcagagactg agactaaagc 900
atcanttaat aaacccccca agccc 925

```

```

<210> 438
<211> 351
<212> DNA
<213> Homo sapiens

```

```

<400> 438
gaaggggggct gccgatcatg gtgaaagggg acattttcat tgggtcctcg tgggtccgtgt 60
cctgggtact cggggtcacc gtgcagacag ctgccctttg tctgccggac acagtgcagg 120
caggggagac aggttttagg ctctgacatg gggcacaggg actccgagcc aagggatgtc 180
agggcagctc tgtgcatctg aggcctttgc ccttgctttg cgggtcagtt catgtccaaa 240
gcacttttagg aggtctgcagg gatcaatacc caatataccc aacaactgga attgtttaca 300
catgacctac attttggacg gtttatcaat aaacatgtgt gaacaactgt t 351

```

```

<210> 439
<211> 1265
<212> DNA
<213> Homo sapiens

```

```

<400> 439
cgagttccta cacacacaga cacacacaca cacacacaca cacacacaca cacgggcaac 60
atggcgaaac ccagtctcta cacacatata cacacacata cagacacaca gacacacaca 120
cacactagct ggggtgtggtg gcgcacatct gtgggtcccag ctactcaaga ggctgaggtg 180
gaaggatcac ttgagcccag gaatttgagt tgcagtgaac cgagattgtg ccattgcact 240
ccagcctgag agacagagcg agactctgtc tcaaaaaaaaa aaaaaaaagt ttatgtcctt 300
aaataaaaaat tcataggctc tagattagat tagaagatac agcttagatc aaaagggctc 360
ttttggatac ttttaatttac tcgtgtgccc tgccatgtgg atgagaagtg attacatgtg 420
gaaattcata gtgttatctt tttatagcat tcatttaaaa aggttggatt tatgtaggcc 480
ttttcctttt gttctttatt gcagatatcc aagagaagct tatgtggtgt tagttcacca 540
tattagagaa tctattccag gtgtgagcct cagcagcgat ttcatgtctg gcttttgtgg 600
tgagacggag gaagatcacg tccagacagt ctctttgctc cgggaagttc agtacaacat 660
gggcttcctc tttgcctaca gcatgagaca gaagacacgg gcatatcata ggctgaagga 720
tgatgtcccg gaagaggtaa aattaaggcg tttggaggaa ctcatcata tcttccgaga 780
agaagcaaca aaagccaatc agacctctgt gggctgtacc cagttggtgc tagtggaaag 840
gctcagtaaa cgctctgcca ctgacctgtg tggcaggaat gatggaaaacc ttaaggtgat 900
cttccctgat gcagagatgg aggatgtcaa taaccctggg ctcagggtca gagcccagcc 960
tggggactat gtgctgggtga agatcacctc agccagttct cagacactta ggggagctc 1020
tctctacagg accactctga gggactcttc tgcataattgc tgacctgaga ggatggcctc 1080
agagctgact tgggcaatcc tccccaacag gaaggggaga cattgcctgc cactgaggaa 1140
acaggtcatg aaggtggaga taagctgcaa ggggcgaagc aactttatgt cagtggaaaa 1200
cgtgtctctt taaagctgct atgtgaacag cttttacagt cattaaattt acctaaacta 1260
aggtt 1265

```

```

<210> 440
<211> 556
<212> DNA
<213> Homo sapiens

```

```

<400> 440
aaataaactg tatttgcaaa tccaacattg agcttctgga ctacgctgac tccactgctg 60
aatcctcaat ggaaagggtc gactggttgc agttgaaatg acctgaaatg tagcctctgt 120
ccttgtaagt cagttgactt gccgcacatc tctttgtgta cttgtacggg actggcagaa 180
aagtcaattt tcaaaagcca taggcctttt cttgccctta gctgtaataa tgcatctgat 240
tttgatttcc tccagagctg tgtttctgtc cttgcacctg gtattggccc tgtgtttacc 300
actctggccc actcctcacc ccttgctcc cctggctctt tggagtttgt gacattgatt 360
tgaaatggat ggtgttctct tgagagcaag tgagattgca agaattaagt tccaactata 420
cagttttcta acatagctat aaggtccttg ttgctgtttg tgataactga tagataactc 480
attggaaacg tgcatacatt tatattcaga tgaaattatg gtttgcaactg tctattaaat 540

```


atctcgatta attttc

556

<210> 441
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 441
 ctcttcacaa cagtatcaac actggcttct cccggttcat tttatgcgtg cgagaagtca 60
 gtggttaactg ctgcagggt taatacatta gtggttaactg gtttaaaaaa caaagactgt 120
 aagcctgtgt gtgccactgt ttgcttcaac agtatatcct actaataagc ctcacctatt 180
 taatccaatg agtttttaaat ctaaatctca ttcccttctt ctttccctac cttttttttc 240
 tttttttctt aaaaaaatat tttgtgttat taacagaaat tcatatttgg tgtggcttaa 300
 cggtatttca gaaggtcatc agattgtgag actgcttctt tgaaacattt ttgtgctatt 360
 gttttaaaaa aataattaaa aaacagttgg cgtaataaaa aatgtcaatg tgaaactg 418

<210> 442
 <211> 902
 <212> DNA
 <213> Homo sapiens

<400> 442
 gattcccttc cactgtttta tgaattaatt ccagttcttt tcatgtatct ttgaacctaa 60
 gattatgaag taatttccct attagggact agaatgactt cagttttttc atttgataaa 120
 aatcagaact gctacctttc ccttttttaa tgatgcaaaa tgtagatgag tgcattaagg 180
 tttgtaagat ctttatcatt ttatgtcatt cattgaaaat tgaaatgttc attcttttta 240
 atgttttctt atttcccttt gcctagcatt tgactttggg gtttaagttc ttagttcca 300
 tgacatcatt gtttgctgtt gtgttacaga gagagaagga acctcacctg tggctcagct 360
 caccacacat ccgtttctca ttacgtgtaa ataaactgtc agagctgatg ttacagcttt 420
 tacagtttta agcattcccc tcgtctctag ttcccttttt cttgtttacat gttttgggca 480
 ctttccctca ttcaccacct tccagggttt catagaaaat aacttgttac aaaatcagtt 540
 caattctaag gtggacatag tggcatgttc ataattagac ccataatagg gacactgagc 600
 tttaaatcgt tgattctaaa ctctatacat taaaaaaatt cagcccaggc ccctcaaagc 660
 ctgagaaaaa ttaatttgct cttaatttaa tgttccaaaa ctactcttg gaaaaatgcc 720
 tgtttgaaaa ctacaggtgg gtcacatgtg ggggctgtct ccgtgacact caggattcca 780
 gtcagaacct aatcctcata tctattgcct acaaaaatag accaagaatg ttgctgctct 840
 tttataatcc tttaaatatt taacattcaa gttttctttg tcttaaattc agccttttcc 900
 tt 902

<210> 443
 <211> 553
 <212> DNA
 <213> Homo sapiens

<400> 443
 tggaaattgct ggagactttg cacctgggct tggccagctc ccggctcaga cctgaagctg 60
 agccagagct aggtgtgaag actccagagg agggctgcct cctgaacact gccatgtta 120
 ctggccctga ggcccgctgt gctgcccttc gggagggaatt cctggccttc cgccgcccgc 180
 gagatgctac tagggctcgg ctaccagcct atcgacagcc agtccccac cccgaacagg 240
 ccactctgct gtgaacatcc ctgatgtgag gctgtgaaaa ggcatatgga cctgcaaagg 300
 aggcccccaa ccagacagac gtagtttcaa acgagggcac tgcccctgcc tgcccctttg 360
 gtgcccaggc acagaccctg atagtgggtt tgggtcacct tggatatgaa tgtatgtgct 420
 gacccccctg gtgagtctgg ggattggaac agggatctta ggtctgcctc tctctctctc 480
 tctctctctc tctctgtgtg tgtgtgtgtg tgtgtgtgaa gttttttaca ggtgaataaa 540
 caaagtttga aag 553

<210> 444
 <211> 1230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2,195,924,1166,1167,1168
 <223> n = a,c,t, or g

<400> 444
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 aagattttttg ttttggttttg ttttggggtgc taagggggcc cagagccact tctctgtggc 120
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<210> 445
 <211> 715
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> 257,270,271,301,473,547
 <223> n = a,c,t, or g

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 <211> 1750
 <212> DNA
 <213> Homo sapiens

<400> 446
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<210> 447

<211> 1031

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 876,939,978,1002,1027

<223> n = a,c,t, or g

<400> 447

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```

<210> 448

<211> 2166

<212> DNA

<213> Homo sapiens

<400> 448

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<210> 449

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 967

<223> n = a,c,t, or g

<400> 449

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caaagggttc accaagaggg actctccttg agtaaggccc ccatacatctt ggggtgagagg 180
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ccctacttgg ctacgccctt ctctcagct gtgagcactg tcctcaggag agtcacaggg 420
cttgacacct gactctgagc tggaacagta ggggcaggga gaagacaggt ctcaagaaaa 480
ggtttttaag aagtttcatc cccagttaag cagagtccat ccttgacctt aaatccctta 540

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gcacagggca ataaaaaat cccccct 1107

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<210> 450

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 450

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<210> 451

<211> 817

<212> DNA

<213> Homo sapiens

<400> 451

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cggcgcgatg tgcttctagc ccttgcaact cacctaggct cagggttcaa acggccagcc 180

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<210> 452
 <211> 1112
 <212> DNA
 <213> Homo sapiens

<400> 452						
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gtttaacatg	cagggtacat	caatagggcc	aatttaaaaa	atgataacac	atattagtat	180
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<210> 453
 <211> 836
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26,48,610
 <223> n = a,c,t, or g

<400> 453						
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<400> 454

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 <212> DNA
 <213> Homo sapiens

<400> 455

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<210> 456

<211> 1782

<212> DNA

<213> Homo sapiens

<400> 456

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<210> 457

<211> 2607

<212> DNA

<213> Homo sapiens

<400> 457

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 <211> 645
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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<210> 461
 <211> 663
 <212> DNA
 <213> Homo sapiens

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<211> 709
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 <222> 527
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<210> 463
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 463
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<210> 466

<211> 2510

<212> DNA

<213> Homo sapiens

<400> 466

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 <211> 1160
 <212> DNA
 <213> Homo sapiens

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<210> 468
 <211> 1866
 <212> DNA
 <213> Homo sapiens

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<210> 469

<211> 1825

<212> DNA

<213> Homo sapiens

<400> 469

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 <211> 417
 <212> DNA
 <213> Homo sapiens

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<210> 471
 <211> 1080
 <212> DNA
 <213> Homo sapiens

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<210> 472
 <211> 1266
 <212> DNA
 <213> Homo sapiens

<400> 472
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<210> 473

<211> 2748

<212> DNA

<213> Homo sapiens

<400> 473

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 <211> 755
 <212> DNA
 <213> Homo sapiens

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<210> 475
 <211> 630
 <212> DNA
 <213> Homo sapiens

<400> 475
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 <211> 1143
 <212> DNA
 <213> Homo sapiens

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<210> 477
<211> 2260
<212> DNA
<213> Homo sapiens

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<210> 478
<211> 995
<212> DNA
<213> Homo sapiens

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<400> 478
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<210> 479

<211> 2803

<212> DNA

<213> Homo sapiens

<400> 479

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<210> 480

<211> 312

<212> DNA

<213> Homo sapiens

<400> 480

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<210> 481

<211> 3165

<212> DNA

<213> Homo sapiens

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<210> 482
 <211> 620
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<210> 484

<211> 1737

<212> DNA

<213> Homo sapiens

<220>

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<222> 1539

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<211> 1972
<212> DNA
<213> Homo sapiens

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<211> 2015
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 2456

<212> DNA

<213> Homo sapiens

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<211> 2458

<212> DNA

<213> Homo sapiens

<400> 490

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<211> 2259

<212> DNA

<213> Homo sapiens

<400> 491

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<210> 492
 <211> 1168
 <212> DNA
 <213> Homo sapiens

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<400> 493

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<211> 2353

<212> DNA

<213> Homo sapiens

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<211> 2557

<212> DNA

<213> Homo sapiens

<400> 495

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<211> 2496

<212> DNA

<213> Homo sapiens

<400> 496

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<211> 2053

<212> DNA

<213> Homo sapiens

<400> 497

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<211> 2610

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<400> 499

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<212> DNA

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<222> 1676

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<211> 1971

<212> DNA

<213> Homo sapiens

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<210> 502

<211> 562

<212> DNA

<213> Homo sapiens

<400> 502

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<211> 977

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 1872

<212> DNA

<213> Homo sapiens

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<210> 512

<211> 1195

<212> DNA

<213> Homo sapiens

<400> 512

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<211> 1365

<212> DNA

<213> Homo sapiens

<400> 513

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<210> 514
<211> 2908
<212> DNA
<213> Homo sapiens

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<210> 515
 <211> 1027
 <212> DNA
 <213> Homo sapiens

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<400> 515
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<210> 516
 <211> 2216
 <212> DNA
 <213> Homo sapiens

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<400> 516
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 <211> 1883
 <212> DNA
 <213> Homo sapiens

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<210> 519
 <211> 693
 <212> DNA
 <213> Homo sapiens

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<210> 520
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 <213> Homo sapiens

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 <222> 862
 <223> n = a,c,t, or g

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<210> 521
 <211> 1182
 <212> DNA
 <213> Homo sapiens

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<210> 522
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 <212> DNA
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 <223> n = a,c,t, or g

<400> 522

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<210> 523

<211> 2354

<212> DNA

<213> Homo sapiens

<400> 523

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<211> 2912

<212> DNA

<213> Homo sapiens

<400> 524

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<211> 586

<212> DNA

<213> Homo sapiens

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<211> 972

<212> DNA

<213> Homo sapiens

<400> 532

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<211> 1127

<212> DNA

<213> Homo sapiens

<400> 533

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<210> 534

<211> 1960

<212> DNA

<213> Homo sapiens

<400> 534

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<211> 1295

<212> DNA

<213> Homo sapiens

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<222> 1208

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<400> 535

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<210> 536

<211> 1411

<212> DNA

<213> Homo sapiens

<400> 536

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<210> 537

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 537

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etc

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 <211> 1333
 <212> DNA
 <213> Homo sapiens

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<210> 539
 <211> 1110
 <212> DNA
 <213> Homo sapiens

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<210> 540
 <211> 144
 <212> DNA

<213> Homo sapiens

<400> 540

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<210> 541

<211> 1069

<212> DNA

<213> Homo sapiens

<400> 541

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<210> 542

<211> 1634

<212> DNA

<213> Homo sapiens

<400> 542

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gagggtcaata ttagtgagct gcctgatgag atagacatct cctcctacat tgaacagaca 1440
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gtgggggtga aggagacact actgccccca cccctgacag cccccacccc atggcttcca 1560
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caaaactaaa attg 1634

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<210> 543

<211> 473

<212> DNA

<213> Homo sapiens

<400> 543

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qgttgctaaa gtagccaatg tttctctttt ggccctatac aaaggcaaga aggaaagacc 420
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<210> 544

<211> 642

<212> DNA

<213> Homo sapiens

<400> 544

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ctcgccacac tccacggaag caatatgaaa tgatctgctg cagtgtcttg agccctagga 60
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gacatcgtag tacacgacac gtactacgtt gtagctcact tccactatgt cctatcaata 180
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gcagtaatat taataatttt catgatttga gaagccttcg cttcgaagcg aaaagtccta 480
atagtagaag aaccctccat aaacctggag tgactatatg gatgcccccc accctaccac 540
acattcgaag aaccctgata cataaaatct agacaaaaaa ggaaggaatc gaacccccca 600
aagctggttt caagccaacc ccattggcctc catgactttt tc 642

```

<210> 545

<211> 912

<212> DNA

<213> Homo sapiens

<400> 545

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tataattttca aggatgtttt tctttatttt tgttaatat aaaaagtctg tatggcatga 360
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cactaaagca gagctagtaa tgctttttga gtttcatggt ggtttatttt cacagattgg 480
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atgagttaaa ag 912

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<210> 546
 <211> 759
 <212> DNA
 <213> Homo sapiens

<400> 546
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 gtaccaggat gccaccgcag aagaggagga ggatttcggt gaggaggccg aagaggaggc 180
 ctaaggcaga gccccatca cctcaggctt ctgagttccc ttagccgtct tactcaactg 240
 cccctttcct ctccctcaga atttgtgttt gctgcctcta tcttgttttt tgttttttct 300
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 ttgaatgtct cctctctctt tccactctgg gaaacctagg tttctgccat tctgggtgac 420
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 ctatataagg aaggggatgg gattttccat tctaaaagtt ttggagaggg aaatccaggc 660
 tattaaagtc actaaatttc tattttgtgt tgaacttgct gctttttttc atattgaaaa 720
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<210> 547
 <211> 1016
 <212> DNA
 <213> Homo sapiens

<400> 547
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 agaggccctg gctcccgagg tccagccact ctccctgggg cctctggggg gagagcagct 180
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 agcagcaatg cactggttcg ggagccccc tcagcctcct tgtgcaaact gggcccccac 480
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 ccagtcattg gatccctgc catcttgctt taggaacagc cttccccac cagcagccat 600
 ggctggctgg ggcgttagcc aagccacctt ctgccaggaa ttggagcctc agttccctcc 660
 tgtgtcaagt agctaactgc agcagctgga ctgagggcag agtctgtggg tgcagagacc 720
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 ttgctgtgct gaggaagggt gcattccgtg cttgcctcct tgaggagggt ggcattctgt 960
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<210> 548
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 548
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 ctaattttaa cacttgccgt gactcagctg aaacagcttc taccaggttt gaaatgttct 180
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 agcttgacc tggagaattt cagggtgcaa ctgacggacg cttgtttagt ctgaagccaa 300
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 caaatgcttc atcaggcctc acagcacaag caagaataat aatgctaata gttatagcac 420
 ctattgtatg ctcatlaagt tggtagaata ttgacttttt ctctttttta tttgggataa 480
 tttaaaaaat gatggatgag aaaagaaaga ttgggtccggg ttaataattat cctctagtat 540
 aagtgaatta ctagtttctc tttatttaga caaacacaca cacaccagat aatataaact 600

taataaatta tctgttaatg tagattttat ttaaaaaact

640

<210> 549
<211> 591
<212> DNA
<213> Homo sapiens

<400> 549
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tattattatc atgtgcaaag tatcagtttg aggacaggta aaatcaaaat gtgtatgctc 180
tctagaaggg aaagtcccta ctgaagatag ctttgcttaa atgagctcaa ttacaatgtg 240
aatgctgagg tttattgtgt tggctgtatg gtcagtga aaatggctatt tccttgacta 300
cctgatacgg tttggctgtg tccccacca agtcttattt tgaattgtaa tccccataat 360
tcccacatgt tgaaggaggg acttggtggt aggtgactgg atcatggggg tggatcccc 420
catgctgttc tcatgattgt gagttctcat gagatccaat ggttttatac atggtagtct 480
ctcctgctgc catgtaaaac atgcctgctt ccccttctgc caggattgta agtttccga 540
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<210> 550
<211> 998
<212> DNA
<213> Homo sapiens

<400> 550
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cgagggaag cgaggagaaag ggtatggcac agtcacaagg gtgggtgaaa agatacatca 120
aggccttttg taaaggcttc tttgtggcgg tgccctgtggc agtgactttc ttggatcggg 180
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cccaaaatat gcagaccttt gggaatataa aaatatgca cccacatgtc ttaatggggc 900
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tgcttgctgc tgaaataaat tgaaaattaa tattcaat 998

<210> 551
<211> 837
<212> DNA
<213> Homo sapiens

<400> 551
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cagtgaaaat caaagttaga ttttcctttt ttcttcagat ttatcttata atgatatttt 780
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<210> 552

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 552

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ttttttcaga atgaacttaa taattacctg ttggtttggt gttaattatc ctccctccct 60
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cactccagcc tgggtgacaa gagcaaaact ccgtctc 1957

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<210> 553

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 134,135

<223> n = a,c,t, or g

<400> 553

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attgctggat catnnattgt tctgttttta attctttgaa gaccttcata ctgttttcca 180
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agttgttagg tcctggagga agtaaaaata tgtgtaacta tgggccctgg ctatatgaat 480
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<210> 554
 <211> 1004
 <212> DNA
 <213> Homo sapiens

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<400> 554
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aaatgtcttt ccttctatct gggtcctgtt aaagcgggtg tcagtgtgtg cttttcacct 180
cgatttgtga attaatagaa ttgggggggag aggaaatgat gatgtcaatt aagtttcagg 240
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aagaacaagt ttcagaattt tccctccact atacgactcc agtattatgt ttacaatcca 360
ttggatgagt gcagcattat aagacctgg tgcccagaaa aatctgtcct ttttggtagc 420
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<210> 555
 <211> 2054
 <212> DNA
 <213> Homo sapiens

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<400> 555
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aaggtctgat tctctcttaa ttctcagggc aggtttctgt ccccatcccc ctccatgttc 180
ccagaggctg ggcattggagg gctgcctatc aagcccccat atctatatcc ctgctgtgcc 240
tccctttccc ccacccccag tgcccagca agacctttgg caccttcagt tccaccaagg 300
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tgcccactgg ggggcgcctt cttttcctac aagttggagc caattacacc ttcactcaaa 420
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acgttggcac ggtgctgaag gtgatctcgg tcccgaaggg cagtaggccc agcgcagagg 540
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tttcttccaa gagggtgagt gaccaggatg ggggtcgggg tgggatggac tgagcttgtg 660
cctggcgcgt cccaagcctc tggccccctt tggtagtttg cagtcccggg tttgagtaca 720
ggctctggct ttgttagact gtgtgacctg aggcgtaaga cctcagtgtt cccatctgtc 780
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cggttccggc ggcaagacgt aaggaatggc gaccccagca cgttgtgtct cggagactcg 1080
tctcgtcccg cgctgctgga acacaaggtg ttcggcgtgg agggcagcag cgcctttctg 1140

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```

gagtgtgagc cccgctcgct gcaggcgcg cgtggagtga ctttccagcg cgcaggggtg 1200
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cgcccgagc ctgcgtgca gtcactgcc ctggagtcgc ggagaaaggg ccgtaaccgg 1560
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gaccctgaaa agaaggacgg gttggggccg ggcacattgg ggtcaccgg ccgatggaga 1740
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ccttgaatgt agcagcccc ggagggcggc acaggtcggg cgcaggattc agccggaggg 1860
aagggacggg gaagccgagc tccagagcaa cgaccagggc cgaggaggtg cctggagtgc 1920
ccaccctggg agacagacc cacctccttg ggtagtgagc agtgagcaga aagctgtgaa 1980
caggctgggc tgctggagggt ggggcgaggc aggccgactg tactaaagta acgcaataaa 2040
cgcattatca gcc 2054

```

<210> 556

<211> 744

<212> DNA

<213> Homo sapiens

<400> 556

```

gtctccatga gggttttcct gttgaggggc accacatata atagtgtgaa gtaggtatga 60
ggggcagtc tttgtattcta tagttttttt atgtagtcta catttctcag atgtatcccc 120
attcggtttt attctcagaa ctgttactag actcatgact tggaggccaa acctaaatc 180
cagagatagc agcctcgata gggaccttaa aaggattcac aaaaactttt gccacacttg 240
gtgcctaggc cctgttccta ataaccctt ctagggccgt t-atccaaca tttagatgcc 300
ttcttttccc tccctaattt gtagccagtc caacctttca ttcttggag gatttagttt 360
tgggataaaa ttttggtcct tgggcacaga gacattcact attaataag taacccttgg 420
gcatgactcc aatcccagaa ttgtctactg agcgtatgc caccgaagcg ttgacctgaa 480
catattagt caatccagtc cagattggac ctttgatcct atgtggaagg gctgtttttt 540
aagaaaaaat ttttggtaaa cagtattgtg taaaattgct ttttgtatac caatatatgc 600
atgttttgt catgagtagt acttgtgttg atactcctgt tgatgttaaa ttactatata 660
atataaacag tatgtgtttt tatatatcat tgtgtaaatt taatataaca tatgcagtaa 720
taaaccattt gttttactgc taag 744

```

<210> 557

<211> 549

<212> DNA

<213> Homo sapiens

<400> 557

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cttttttttt tttttttttt tttttttttt tatgagaatc atacagtggc tttattctta 60
ctacttaaaa aaaggtgatg tgatggcagt gatggtcaac atcacacagg gaagaccagg 120
tccacgcttt gtccagaatc aactgctacc acatgagtct tcttggttaa gtcatttgag 180
cccacagtga cagaataggt ccttgatat acttctatgt agaggtcctt agagatgttc 240
tcagcctgac cattccctat gtccaagcac atgtgcagct tcgactcgcc tctgtgataa 300
cgatagacat gggttgcccc tccttcctct ggcacagatg aataatattt ctctcccggg 360
agaacgcgct gcggggcggc tgccggctgt ttctctaggt ggggcgcctc ccgggcaagg 420
acccccatgc agcctttggg acgctccagg gcatgccagt ccaccgccct cctcttggcc 480
ctctccagca cttctagagc cagccttgct gaacgctgca gggaacgtcg gtccacocca 540
ttcagcgct 549

```

<210> 558

<211> 855

<212> DNA

<213> Homo sapiens

<400> 558

```

cttttttttt tttttttttt tttttttaag acagttttgc tctgtcgccc aggctggagc 60

```

```

gcagtggcac gatcttggct cactgcaagc tccacctccc gggttcacgc cattctcccg 120
cctcagcctc ccgagtagcct gggactacag gctcccgcca ccacacccag ctaatttttt 180
gtatttttag tagagacggg gtttcacagt gtttagccagg atgggtctga tctcctgacc 240
tcatgatctg cccgcctcgg cctcccgaa gctggtgatt acaggcgtga gccaccgtgc 300
ccggcctgat gtttttgaat gattatgaaa atgggtatac agcattaaaa ccttagactg 360
attttaaata tattaatttc ttttaaaactc aatataatgt taatattact gtagcactta 420
ctagcatttc tgaagggttg tcttgagata agattgaaaa tgacagttgt tgattttctg 480
aggtaataata cccaaataaaa atatatgtat gtgtacatga atctaaactg tcttcttctg 540
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ttgggtagcc ttgaagtcac cagaataact aggactcaaa ttcagaccaa accaggacta 660
gctttttgtg ccatgagtta gccatgggtcc tggacccagc aaaaagaatg attatgatgg 720
tcagagtaag atgagcaatt gcaacataat attctctaatt attgtatact gtaaatttat 780
tcagctgcc tgcgttactc acagtttgct tatttgccac cataagaaat ggtacaataa 840
aaattcatgt aatcg 855

```

<210> 559

<211> 504

<212> DNA

<213> Homo sapiens

<400> 559

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gcggcggggc ctgcacgttg actgtgggaa actcggaaac aagctcacat cttcctgtgg 60
gaaaccttct agcaacagga tgagtctgca gctggcttcc acctggcacg tgcctgctgc 120
ttcctgagag cccggcctct cctccagta cttctgtttg tgcccttctg cttcccccatt 180
tccctccac agctcatagc tgcctatctc ggcccttgct cacactctcc aagcacatta 240
caggggacct gattgctaca cgttcagaat gcgtttgctg tcctcctgct tggcctggcc 300
aggcctggca cagccttggc ttccacgcct gagcgtggag agcacgagtt agttgtagtc 360
cggtttgcgg tgggctgac ttcctgttg tttgagcccc tttttgtttt gccctctggg 420
tgttttcttt ggtccgcgag gaggggtgggt ggagcagggt gactggagtt tctcttgagg 480
gcaataaaaag ttgtcatggt gtgt 504

```

<210> 560

<211> 1236

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 175,880

<223> n = a,c,t, or g

<400> 560

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gcgtgagaaa ggggaggaga gtggttgctg cctcagccg gcttgaggac agagnctgtc 180
cctctcatga caactcagtg ttgaagccca gtgtcctcag cttcatgtcc agtggatggc 240
agaagttcat ggggtagtgg cctctcaaag gctgggcgca tcccaagaca gccagcaggt 300
tgtctctgga aacgaccaga gttaagctct cggcttctct gctgaggggt caccctttcc 360
tctagatggt agttgtcacg ttatctttga aaactcttgg actgtcctg aggaggccct 420
cttttccagt aggaagttag atgggggttc tcagaagtgg ctgattggaa ggggacaagc 480
ttcgtttcag gggctctgcc ttccatcctg gttcagagaa ggccgagcgt ggctttctct 540
agccttgtca ctgtctccct gctgtcaat caccaccttt cctccagagg aggaaaatta 600
tctccctgca aaagcccggt tctacacaga tttcacaaat tgtgctaaga accgtccgtg 660
ttctcagaaa gccagtggt tttgcaaaga atgaaaagg accccatatg tagcaaaaat 720
cagggctggg ggagagccgg gttcattccc tgtcctcatt ggtcgtccct atgaattgta 780
cgtttcagag aaattttttt tccatgtgac aacacgaagc ttccagaacc ataaaaatatc 840
ccgtcgataa ggaaagaaaa tgtcgttggt gttgtttttt tggaaaactgc ttgaaatctt 900
gctgtactat agagctcaga aggacacagc ccgtcctccc ctgctgcct gattccatgg 960
ctgttgtgct gattccaatg ctttcacggt ggttcctggc gtgggaactg ctctccttg 1020
cagccccatt tcccaagctc tgttcaagtt aaacttatgt aagctttccg tggcatgcgg 1080
ggcgcgcacc caggtccccc ctgctgaaga ctctgtattt ggatgccaat ccacaggcct 1140

```

gaagaaactg cttgttgtgt atcagtaatc attagtggca atgatgacat tctgaaaagc 1200
 tgcaataactt atacaataaaa ttttacaatt ctttgg 1236

<210> 561
 <211> 565
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 512
 <223> n = a,c,t, or g

<400> 561
 tctgtcctca ttccctgccc ttcccttgggt tgccatatgg aatggccatg gaatgcacga 60
 agtcacaatg caccatccat gagaagacag tgaaatgatg taatgacaga gaaggcagac 120
 aacatgtttc cgtgactcat ctagtacagag caattatggg aaacagcttt ggtcaacatt 180
 ctactttgga aagaattttg agtctagatg tggttaaatt ttgacttctg ggaacttgggt 240
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 aagatgcagt cttctctcca atgatactac caagtcttag ttttccctcaa ccacactcaa 420
 tctttttgct ccaccctgaa ttccctcacac ctaaccctga tagttaccta aagtgacact 480
 taaatgtttc agagtgaatg caaaaaagag tngatgtact tggagtcgga tatacaattt 540
 atccctaatt aaagcattta aaagg 565

<210> 562
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 562
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 ggctctcaga tgctcctggt gttgctgggt ctctcgtggc tgccgcgatg gggcgccctg 120
 tctctggccg aggcgagccg cgcaagtttc ccgggaccct cagagttgca ctccgaagac 180
 tccagattcc gagagttgcg gaaacgctac gaggacctgc taaccaggct gcgggccaac 240
 cagagctggg aagattcgaa caccgacctc gtcccggccc ctgcagtcg gatactcacg 300
 ccagaagtgc ggctgggac cggcgggccac ctgcacctgc gtatctctcg ggccgcccct 360
 cccgaggggc tccccgaggc ctcccgccct caccgggctc tgttccggct gtcccgcacg 420
 gcgtcaaggt cgtgggacgt gacacgaccg ctgcggcgct agctcagcct tgcaagaccc 480
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 gcagaatctt cgtccgcacg gccccagctg gagttgcact t 581

<210> 563
 <211> 1007
 <212> DNA
 <213> Homo sapiens

<400> 563
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 aggtccccc cccactaag tgccctctttg catagcacca gtccccacc gcacgctctc 120
 tggaccacta cagctggacg ggcaatggcg ggtcggggag gcgcagcacg acccaatgga 180
 ccagctgctg ggaacaagat ctgtcaattt aagctgggtc tgctggggga gtctgcggta 240
 ggcaaatcca gcctcgctct ccgctttgtc aagggacagt ttcacgagta ccaggagagc 300
 acaattggag cggccttcc caccacagact gtctgcctgg atgacacaac agtcaagttt 360
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 aagaactggg tgaaggagct acagaggcag gccagcccca acatcgtcat tgcactcgcg 540
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 gcagacgaca acagtttgcgt gttcatggag acatcagcaa agactgcaat gaacgtgaac 660
 gaaatcttca tggcaatagc taagaagctt cccaagaacg agccccagaa tgcaactggg 720
 gctccagggc gaaaccgagg tgtggacctc caggagaaca acccagccag ccggagccag 780


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tgctgcagca actgagcccc ccttgccctgc ccgctgcccc cgccctcctcc gcttgaatga 840
cccgaactgga atccactcta accaatcgca cttaacgact cggggccacca ctggggggggc 900
aggggggaggg gtccaccatg atttctccat ataattttga tcataggccg gagtgaatga 960
ttccacctgc acctttctgt acaaatacta attcaatttt aagtctt 1007

```

<210> 564
 <211> 946
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 942
 <223> n = a,c,t, or g

```

<400> 564
gccaacctcc tactcctcat tgtacctatt ctaatcgcaa tggcattcct aatgcttacc 60
gaacgaaaaa ttctaggcta tatacaanta cgcaaaggcc ccaacgttgt aggcccctac 120
gggtacttac aacccttctg tgacgccata aaactcttca ccaaagagcc cctaaaaccc 180
gccacatcta ccatcacctt ctacatcacc gcccgcacct tagctctcac catcgctctt 240
ctactatgaa cccccctccc catacccaac cccctggtca acctcaacct aggcctccta 300
tttattctag ccacctctag cctagccgtt tactcaatcc tctgatcagg gtgagcatca 360
aactcaaaact acgcccgtgat cggcgccactg cgagcagtag cccaaacaat ctcatatgaa 420
gtcacccctag ccatcattct actatcaaca ttactaataa gtggtctcct taacctctcc 480
acccttatca caacacaaga acacctctga ttactcctgc catcatgacc cttggccata 540
atatgattta tctccacact agcagagacc aaccgaaccc ccttcgacct tgccgaaggg 600
gagtcggaac tagtctcagg cttcaacatc gaatacgccg caggccccct cgccctatct 660
ttcatagccg aatacacaaa cattattata ataaacaccc tcaccactac aatcttctca 720
ggaacaacat atgacgcact ctccccctgaa ctctacacaa catattttgt caccaagacc 780
ctactttctaa cctccccgtt cttatgaatt cgaacagcat acccccgatt ccgctacgac 840
caactcatac acctcctatg aaaaaacttc ctaccactca ccttagcatt acttatatga 900
tatgtctcca taccatttac aatctccagc attccccctc aancct 946

```

<210> 565
 <211> 426
 <212> DNA
 <213> Homo sapiens

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<400> 565
gattacagca gctcacgtga cggatatggt ggaagtcgag acagttactc aagcagccga 60
agtgatctct actcaagtgg tctgtatcgg gttggcagac aagaaaaggg gcttccccct 120
tctatggaaa gggggtaccc tccctccactg gattcctaca gcagttcaag ccgcggagca 180
ccaagagggtg gtggccgttg aggaagccga tctgatagag ggggaggcag aagcagatac 240
tagaaacaaa caaaactttg gaccaaaatc ccagttcaaa gaaacaaaaa gtggaaacta 300
ttctatcata actacccaag gactactaaa aggaaaaatt gtgttacttt ttttaaattc 360
cctgttaagt tccccctcat aatttttatg ttcttgtgag gaaaaaagta aaacatgttt 420
aatttt 426

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<210> 566
 <211> 332
 <212> DNA
 <213> Homo sapiens

```

<400> 566
tgacgacctc cgcacacgag aacatgcctc tcgcaaagga tctccttcat cctctctcag 60
aagaggagaa gaggaacac aagaagaaac gcctggtgca gagccccaat tctacttca 120
tgatgtgaa atgccagga tgctataaaa tcaccacggt ctttagccat gcacaaacgg 180
tagttttgtg tgttggtgc tccactgtcc tctgccagcc tacaggagga aaagcaaggc 240
ttacagaagg atgttccttc aggaggaagc agcac+aaaa gcactctgag tcaagatgag 300
tggaacacca tctcaataaa cacattttgg at 332

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<210> 567
 <211> 870
 <212> DNA
 <213> Homo sapiens

<400> 567
 gtagacagcc ggggccttcg tgagaccggt gcaggccttg ggtagtctcc tgtctggaca 60
 gagaagagaa aaatgcagga cactggctca gtagtgcctt tgcattgggt tggcctttggc 120
 tacgcagcac tgggttgcttc tgggtggatc attggctatg taaaagcagg cagcgtgccg 180
 tccctggctg cagggctgct ctttggcagt ctaccggcc tgggtgctta ccagctgtct 240
 caggatccaa ggaacgtttg ggttttccta gctacatctg gtaccttggc tggcattatg 300
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 ttgctgatgg tcgccaaagt tggagttagt atgttcaaca gaccccata gcagaagtca 420
 tgttccagct tagactgatg aagaattaaa aatctgcatc ttccactatt ttcaatatat 480
 taagagaaat aagtgcagca tttttgcatc tgacatttta cctaaaaaaa aagacaccaa 540
 acttggcaga gaggtggaaa atcagtcagt attacaaacc tacagaggtg gcgagtatgt 600
 aacacaagag cttaataaga ccctcataga gcttgattct tgtatattga tgttgccttt 660
 tctttctgta tctgtaggta aatctcaagg gtaaaatgtt aggtgtcagc tttcagggct 720
 ctgaaaccct attccctgct ctgaggaaca gtgtgaaaaa aagtccttta ggagatttac 780
 aatatctgtt cttttgctca tcttagacca cagactgact ttgaaattat gttaaagtga 840
 atatcaatga aaataaagtt tactataaat 870

<210> 568
 <211> 586
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15,18
 <223> n = a,c,t, or g

<400> 568
 gtgttttagc cttgnngntt gtaaaagaac agtaacagtc taaaggtact ttttgattga 60
 agataggcag tagaaatacc taaaatattt gtagaaaaca taaaactgga cttcagtgct 120
 aactagtga tctggacagg gatgttttcc attccatctg gcataacccc ttccctgagcc 180
 catggacata tctgaagcct tctcctcac agttcagccc aggccctcca tgaacacatt 240
 tgcttgttca catctgtctt tgtctaacte ttatagcatt tctgtcttct gtcattttct 300
 gttggatact taacctttta ttaggctgtt ggtgtgtatt attcctttaca gctagatctt 360
 aacccattgg atagacatca tattttgtat ttttcacacc gatcagtttt tagctgaaag 420
 ctattatata taggaggccc ttaaaatata tgtaaataa ataagtattt cacaacccgt 480
 ttttgaatat ttccctctct aggtttgaac ttggctcatc ttccatagcc cacatggtaa 540
 tgggtacaac aaatcaattc tccacaagaa cacggcttga agaggt 586

<210> 569
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 569
 agctcctgca cccccaggtc ctgcagctgc ttgttaagct ttttgagact gagcactccc 60
 agctggacgt gatggagcag cttgagttga agaagacact gctggacagg atggttcacc 120
 tgctgagtcg aggttatgta cttcctgttg tcagttacat ccgaaagtgt ctggagaagc 180
 tggacactga catttcactc attcgtattt ttgtcactga ggtgctggac gtcattgtct 240
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 caggtaccat caaacggaa ggcgagcatg accctgtgac ggagtttata gctcactgca 360
 aatctaactt catcatgggt aactaattta gagcatcctc cagagctgaa gcagaacatt 420
 ccagaacccg ttgtgaaaaa accctttcaa gaagctgttt taaga;gctc tggcagcgctc 480
 ttgaaaatgg gcaccgctgg gaggaggtgg atgacttctt taaaaaggaa aatggtagca 540
 gcttcagtgaa gaaactgccc ttacaaacag tcccttctct gctgtcaatc caatactgct 600
 cccaaatcct gttttcagtg ttcatctccc tcaaggcagg cgctgggctc ccacgacccc 660

```

tcaggacaga tctggccgtc agccgcgggc cgetgggaac tccactcggg gaactccttt 720
ccaagctgac ctcagttttc tcacaagaac ccagtttagct gatgttttat tgtaattgtc 780
ttaatttgct aagaacaagt aataagtaaa tttttaaaaa gc 822

```

```

<210> 570
<211> 1505
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1450,1500
<223> n = a,c,t, or g

```

```

<400> 570
gacaagcttg gtctgtaaga acacgtgggc aggtgtgtgg gtgtctcaga ccctcgagct 60
catcccagac cctgtcccat gtcagtttagc aagccacca agtccataag ggatcctgtg 120
gggtggaagg tccgcggggc ctgcttccct gttgctgggt caggcggagt gtctgaaggc 180
tgcacgcatac tgggcatagc agtgcgccca acgcttcttg taaaacagac atttcgcctg 240
ctaggccttt taaatgcctc tctgtttctt gaaatatgcc gtaaagggca atggaaatgt 300
gctttttata tactcctggt ttttctctcg tgagtgtgca atcggggggac agtggttagt 360
tgctgggggtg gcgtttttct gctcgtttcc tggcccttc ttccttccct tcaaccctat 420
caggggctta ctaagaaaaa aaaaaaaaca tccaagcgtg ttgcaggcag atgagcagtc 480
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aaggt 1505

```

```

<210> 571
<211> 1010
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 943,945
<223> n = a,c,t, or g

```

```

<400> 571
cagagaacaa gatgtgtctt atgagtcttc tttctcaata cctgcctgt ctcaaattctc 60
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tgcttttgac aataatgcc ctcccaactt cccattcata gaatcataaa gcgatatgtt 180
tcagaactga gagagaaaag tttacctttt attccaaatg cctcgtactc ggtttaagtc 240
cagactcagg tcataaatca aagacagttt tgcacgttgc tcttcaccta aatctagcag 300
tttccctgag gccctatgag ggcattggaca gaaaatgaag gatgcaacca cccaggacag 360
ctccctggtt tgggctggcc tggccacgtg tggtcacatg tcctgggac tgtgtttact 420
gtgtccttgc tctccttct tgcagaagct gctaagctct gctcctccta actgcaggtc 480

```

```

tcaaacccta ttgggtcatt ttgccacact atttctccaa aggcccatag tcattacatt 540
ttttaccatt tcaccaagat aacagggggg gtctggaatt cccctgctag gaagggcccc 600
ttttcctata tcaccgtgat ggtacagatg aactga'gatg aaacttttag acttcagcac 660
gtcacacatc ctggttgtat aaccaggagg tctgcagagc tgcaaccctt gaagaacatc 720
tgtcttaaaa gacctcaaat cagaacattc tcattggcct cttcagtgat ccccatggag 780
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aactgcccc aagggggaga atctatctga aatagaaaag aagcattaag gaccagggtgc 900
ggtggctcac acctataatc ccagcacttt gggaggccaa ggnangtga tcacttaaga 960
tcaggagttc aagaccagcc tggccaacgt ggtgaaaccc catctctact 1010

```

<210> 572

<211> 673

<212> DNA

<213> Homo sapiens

<400> 572

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cccaggcgcc tctagacctc agcctcagcc tcagcctcag cctcagcccc gatgtcagca 60
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agagtggcac acctatgggt gccctgggag actggcctgc ccctattgag gagcgtgaga 180
gcccggcagc ccagcccctg ctggaacacc agtactgagc tacctggcgc ccaactggacc 240
acctcctagg attcagtaac ggacctgctc tgctgcctct ctgctggacc acagaactga 300
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ctgagtgacc cagacctctg accttgaccc ctgatctctc tcatccccag tccagggcct 420
gggctcccca gatggaggca gtcagcctcc cagccaggcc ctaagagcca aaccatgggc 480
tggtcccact tggagcctgt ggccaggacc acctcagccc ctgggcctgc actgcctgca 540
ggtgtggccc ccttggcctg gacctggggc ctgaattgtg ggaagggtgg tttctttctt 600
tccttttttt tcttttctct tttttttttt tttttgtgct tcggagacat cagaattaat 660
aacactattt ttg 673

```

<210> 573

<211> 649

<212> DNA

<213> Homo sapiens

<400> 573

```

tttaatttgt gcagaatgat aaagaatggt ccttttagaa gtgtgttatg tctgtacctg 60
tctgaagagt gacattaaac tttgaaagga cttcactgct cctttacgat attccaaata 120
gttttttaca ttgaaaaaac taattcttgg gattctttca tacattttca tcaaaacttt 180
cagtgtgatt atgtattcat atcttcagtt taatatgtca gtataataga tattgttcaa 240
aagtttcttg ttgctaaagt ggtgtaatct gttacacaga tgaatagcta gatgtggaaa 300
gagatatgta aacaagaaac ctttgggtat tgtttcttaa gtaaaattgg gacaatcatg 360
gtaagcaaac ttagtctctg aactgcattt ttcaccttaa aagttaaag aaatgcatga 420
tggtatttta ttccttgaat tatgcaatgc aacattttac atgtaaatag cactggtcac 480
atatgatgt atattggtat ctgggttata tctattttta tgtaaaactct attttgtttt 540
tggcaagaag tgaaattgag acttatgtgc aggttgccat tgaattttgc tctggtgaat 600
gctgagatcc agctttttct tacaataaaa tgggaccctg ttttccaat 649

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<210> 574

<211> 840

<212> DNA

<213> Homo sapiens

<400> 574

```

aatctgtagt cctacaaaac tcaggcatag aactcatttc ctttatggct ctataatgga 60
actttaccca actctcacgt tccccatgac cacagatgtg gaaaatttga atcttgacag 120
ttcaagggtga actcagtcac tttcagagtt ttcatagtcc cttcaagatt gaaactcagt 180
tcctgcaatg tttgcccctt ttctcctctt ttgtctatgc tgggagaggc attgtgggga 240
gggttgtctg gcttatggct cccattgtcc tctgcttgat aaaccacctg agctttggtc 300
attagcagtc tcctgtgcct ttcacactca ggtagtgtct gcacaggcca ctctatgtct 360
ttccatgctg aagaaattcc tttccaggcc atgtctgtgt tcctcctgcc acacaggaaa 420
tttttgagca tgttcatcct ccaagctgaa tgcagggtct tgggtagtgg tcctcacctg 480

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```

ctccagagac ttctccagcc attgccactc tccactcagg tgatgaagct ggatgagggg 540
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tattccgaga tttccattgt tctgccccct cttgactccc agggctctca agggagtggg 660
ggtagtgaag ggagcccttt cccaagctcc cccaagagct ctagtccat cacttctgat 720
acttcttttc ccaccagctg gaagaaagaa ctttcatttg tcttgaaatg agaaaaatgt 780
tcttagaata ttttgtatta ctctctgctc tgtcatttat ggtaaacaaa ataaaaaat 840

```

<210> 575

<211> 606

<212> DNA

<213> Homo sapiens

<400> 575

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gggaggtgat cggggcagga gtaaagtgga cacctcagca aagccattcg ctgtgatctc 60
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cgccagcatg atctagcagg ccaaactccta atctaccatt ctctgacacc agctgggtccc 180
ctgggtcgtc caccgatgt cccccattct ccccaattgg cctccccccac aggtctctcg 240
caaaggaccg tgggaggcac ctgtgacact gcccttttcc tgtgcagctg tttttcttct 300
tcattctttt cactcctcgt tactcttttt ttttttccact ctcagcccac acaaaaactag 360
gaactttgtt attctactta tttttctgta ctctgtctgt ttgcacacag atggatatct 420
gagagccagc gaactttctt tacctcctag tatcatttca tgaaaattag tagcacctgc 480
acaatggggc cttggagaca ggaataaaaag gaaaaatctg gaatggaatc acatgacgca 540
acaggctatg aagactccct gcccggtctc tatatgtctg gtaaacagaa taaatagtac 600
ttgagc 606

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<210> 576

<211> 352

<212> DNA

<213> Homo sapiens

<400> 576

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gccacctgcc ctgcctgggg gatcatactc ctgtcatagc agttgaagtt gccctcttct 60
tgccaaagtc tttcctggta tccagttgca atgagtcac cctttcttct ggggtgtccac 120
agtttgttct tctgtctcag ttataaccatt cagctcattc ttgtttttct ttttattgga 180
attatgtgtg gacttctatc ttccaaaagc ctagaagctg agggctgggt ctttgttcat 240
ctttgtgtgc ccattgcac atggaataat acttggaata caaggccggc aacaccatac 300
aagctcagtg aatatattta tgtcatgctt caataaacta atgatatttt at 352

```

<210> 577

<211> 747

<212> DNA

<213> Homo sapiens

<400> 577

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aatctgcaat tttctctaat aagtcagcac ctgttaaaaa ggaggttgca caaaacactc 180
ccatttgcag tttggaagga ttattatctg ctttgggtctg tgaagtggaa agtcaatgtt 240
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ggtatagtga caacacagct tacctctgca ttcaaagaag ctagaactta ccgcgataa 480
tcattagtag aagacagctt aaagtagtgt ctgctttctg gctaggcctg attcacaggt 540
gctgtgataa attcaaaaag acctgcctcc tctgatgtgc tagtatcaag ggtgagggag 600
acagttaacc aaactggtca aaagcattgt cagcaaagac ctgggtgctga atcatgttgg 660
gaaactggag tttggagcta gagaggcaat aaccaagtat caaggctctga atgtccactt 720
tgtaaccact gtagtaataa ttgactc 747

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<210> 578

<211> 791

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 418,419

<223> n = a,c,t, or g

<400> 578

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atgagaagta aagctgagaa aggaccagat tgaccaagcg ccagagacaa aatgtggcac 120
aacgagaacc ccagccctgt ccagggtggc cgcgcgccag ggcccaggct tagcagtgtc 180
ccctgcccta tctttgggaa aatcttgctt ttatggtctt cccccccttc gccctcaaga 240
acaaggcctt tgtgcgtggg ccttcccatt gctgctttcc caagaaggcc tggattcagg 300
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tcccaccatc agccttcgcc caaggggccc ttctgacctc gcttccctcc cttctcctct 720
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tataactctga c                                     791

```

<210> 579

<211> 764

<212> DNA

<213> Homo sapiens

<400> 579

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atggcttgtc taccccttga cagccctgtc ctgtgctggg gagggctgtg ttttgacagg 720
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```

<210> 580

<211> 746

<212> DNA

<213> Homo sapiens

<400> 580

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gcgtgggcca cgccttgag gtggaggagg cgctgctctg catggacggc gcaggcccgc 180
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tgcaccggga cgcccccg ctcagcggcc cgcagagccg cgcctgcag gaggcgctcg 660
tactctccga ccgcgcgcca ttgcgcgcc cctgcgcctt cgcagagctc gttctgcgcg 720

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cgcagcaata aagctccttt gccgcg

746

<210> 581
 <211> 665
 <212> DNA
 <213> Homo sapiens

<400> 581
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 gatgggactc catagctcct tcccaggacc cctcagctcc ccggcactgc agtctgcaga 420
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 acctc 665

<210> 582
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 582
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 ggagaagtca gttaacctca gtgaatctca gcattccagt agaaaatcct catctccttt 180
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 aaaaaatcaa aaaaattagc gaggcatggt ggcacatgcc tgtggtccca gctaccctgg 480
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<210> 583
 <211> 952
 <212> DNA
 <213> Homo sapiens

<400> 583
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 atggtttaaa tctatatggt ttgtgcattt tctcaactaa aaatagagat gataatccga 360
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 <210> 584
 <211> 661

<212> DNA
 <213> Homo sapiens

<400> 584
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 catatgagaa tatcaggaat gaaggacaaa atacagatcc caagctaaat cccaaggatg 360
 acggcatcgt ctatgcttcc cttgccctct ccagctccac ctcaccaga gcacctcca 420
 gccaccgtcc cctcaagagc cccagaacg agaccctgta ctctgtctta aaggcctaac 480
 caatggacag ccctctcaag actgaatggg gaggccaggt acagtggcgc acacctgtaa 540
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 t 661

<210> 585
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 585
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<210> 586
 <211> 924
 <212> DNA
 <213> Homo sapiens

<400> 586
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 gcttggttgt tttagaagca cctgggtgtg cctacctact cctcttttct tttaaaaggg 840
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 atgccaataa aagtttatgt tctt 924

<210> 587
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 587


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cttgaggaag agtgagggtt ccaacttttc tgcttatctg ggaggtgttg ggcgcgga 60
gtcgagatgt cagagaaaaa gcagccggtg gacttaggtc tgttagagga agacgacgag 120
tttgaagagt tccctgccga agactgggct ggcttagatg aagatgaaga tgcacatgtc 180
tgaggagata attgggatga tgacaatgta gaggatgact tctctaata gttacgagct 240
gaactagaga aacatgggta taagatggag acttcatagc atccagaaga agtggtgaag 300
taacctaaac ttgacctgct taatacattc tagggcagag aaccaggat gggacactaa 360
aaaaatgtgt ttatttcatt atctgcttgg atttatttgt gtttttgtaa cacaaaaaat 420
aatgttttg atat 434

```

<210> 588
 <211> 651
 <212> DNA
 <213> Homo sapiens

```

<400> 588
gcgggcttca gcacactgag ccaagtgcct tctctgtctc acacttgcct tcaggaggcc 60
ggcatcacag aggagagaca cataagaaag ctcttatctg cagccagact cttcaaactg 120
ccgccaggcc ctgaggccat gtagccaggc ccggaatggg cctctctgga caagagccac 180
cctttcactg tgcataatgat gctgatgcaa ttctccatc atctctggac gtgcagacca 240
gatccagaag aaaggcctgg cgtgtggcca aacagcgtga aaccttggca caggactgag 300
gatcctctcc tccagaaaag cccctcgag gaaataaatt agtgcggttc tctttgacct 360
ccaaagacaa gacaagcact tatttttatt ttcagaagac aaaagaacca agatgccaac 420
tggtgcgaa tgctctatct ccagtctgtc tctgtgtact ggtagaggct gggaggagta 480
gggggcagcc tgttccattt ctgatagtgc ccttgcctct ctgtctgtca tcttgcagga 540
tgcccagggg ccagatgggc ttagctaggc caaagtaaca gactcaagag ttattgtaca 600
ttactgacca cgctcatttg ttcaaaagtt agaacatctg gctgcaccag g 651

```

<210> 589
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 527
 <223> n = a,c,t, or g

```

<400> 589
ttctgattct tattccagtg tcttttctag cataccatgt tgcctctaaa gattgcagct 60
ccttattttac tagaaaattg ttctgcccac atctacatct ccacctcacc ccatcttttc 120
ttaagcacta tgtttgtgtt tttatcagta ttatattcat tgtctttgga atacatgttc 180
ttgtttgtgt ttggaaaaaa aatctctttt accagcttgc actcggaacca acttggaaaa 240
aaaaaagctt aaatgttttt gctatgtaca gtttaaaaat gtgaagtgtg tagctttaac 300
tttttgaag aaaatctaata aacactggct taagtgtgta cttgaaatgc tattttgtaa 360
ggtttggatg taagtaataa attgagggtc gcagtttgta tgagacatag cttcctccat 420
tgccccact ccttttttct tttttaagtt tgagatgctt cctgtgtttt tatgttagaa 480
ttgttgttct ccttcttttc ttcttcctat acctcatcac gtttgtntta aataaactgt 540
cctttggacc ac 552

```

<210> 590
 <211> 672
 <212> DNA
 <213> Homo sapiens

```

<400> 590
gctgcggggt ctggtcttcc tgtcatttgt tgggggtgcgg agactaccag ggagtctgag 60
gatggaagag caccagttcc ggaggagcca gggcagcgaa cacaaagccc cgcagccccg 120
ggcaggttgg gagagtcctt ctgcctgcgc agcctggttg ggttgagaca gcgggatggc 180
ccttgctgcc tggctcacga aagccccctg tgggagagcc ccaggcgccg agggcatgtg 240
ggttgtggga agagcggttc cccacgcccc ggtgtgggtg aactcgatag aggagggtga 300
caaccaccgg ggtgtctaata tagtaaccac agtggccttc aaagaactca aatgaaagga 360

```

```

agacttgtag gtctctcact ttaagtcag agctagaaat gattaagcct agtgaagatg 420
tagaattttc atagctagag agaagtcaat gcttggttc aaaacttctt tgaggaccac 480
tgcagctggt gactttaagt tacagccagt gctcattgac cactctgaaa atctcaggac 540
ccttaataat tatgcaaaat ctattctttc tgtgctctag aaatggaaca tctactgtctg 600
ggtgacagca catctgttaa tagcatgggt tactgaatat attaatccca cttattgaga 660
cctactgctc ag 672

```

<210> 591
 <211> 720
 <212> DNA
 <213> Homo sapiens

```

<400> 591
agcggccgct cgcgatctag acccaatggt acagtcattg ttggggaatt agttggagca 60
cggttatttg ctcatgcagg ttctctttta aatttggcca agcatgcagc ttctaccgtt 120
cagattcttg gagctgaaaa ggcaactttc agagccctca aatctagacg ggatacccct 180
aagtatggtc tcatttatca tgcttcactc gtggggccaga caagtcccaa acacaaaagga 240
aagatttctc gaatgctggc agccaaaacc gttttggcta tccgttatga tgcttttggg 300
gaggattcaa gttctgcaat gggagttag aacagagcca aattagaggc caggttgaga 360
actttggaag acagagggat aagaaaaata agtggaacag gaaaagcatt agcaaaaaaca 420
gaaaaatatg aacacaaaag tgaagtgaag acttacgac cttctggtga ctccacactt 480
ccaacctgtt ctaaaaaacg caaaatagaa caggtagata aagaggatga aattactgaa 540
aagaaagcca aaaaagccaa gattaaagt aaagttaga aagaggaaga agaaaaagtg 600
gcagaagaag aagaaacatc tgtgaagaag aagaagaaaa ggggtaaaaa gaaacacatt 660
aaggaagaac cactttctga ggaagaacca tgtaccagca cagcaattgc tagtccagag 720

```

<210> 592
 <211> 462
 <212> DNA
 <213> Homo sapiens

```

<400> 592
ctcactgctc actgcaacct ctgcctccca ggttcaagca gttctctgtc ttggcctcct 60
gagtagctgg gaccacaggg acacaccacc acgcctggct aatttttgta ttttttagtg 120
agacagagtt tcaccatggt gaccaggctg gcctaaaacc cctgatctca agtaatctgc 180
ctgcctcggc ctccaaagt ctggaattac aggcgtaagc actgtgccag gccattttca 240
tgctattctt taaatttact tcctttgtaa atgaagacac tattaatcag ttttaattt 300
atgtgtccaa tagaaactaa atgctaacta tcgattgcat gcttaattac ttttaccttt 360
gtcttaactc tactgttctt tacctaactt tttataacta ctttctgcat ttttgcatct 420
tcattttcca cccatttttg aataataaaa gaaaataaca at 462

```

<210> 593
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> linker sequence

```

<400> 593
gaattcggcc aaagaggcct a

```

21

<210> 594
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> linker sequence

```

<400> 594

```

gaattcggcc ttcatggcct a

21

<210> 595

<211> 8

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<220>

<221> unsure

<222> (7)..(8)

<400> 595

gaattcnn

8

<210> 596

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<220>

<221> unsure

<222> (1)..(9)

<400> 596

nnnnnnnnnc tcgag

15

<210> 597

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<220>

<221> unsure

<222> (1)..(9)

<400> 597

nnnnnnnnng tcgac

15

<210> 598

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<400> 598

acggcctctt tggccctcga gaca

24